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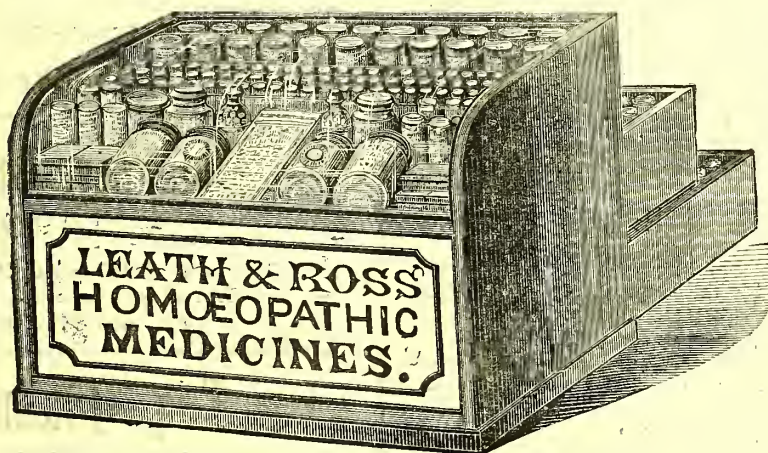
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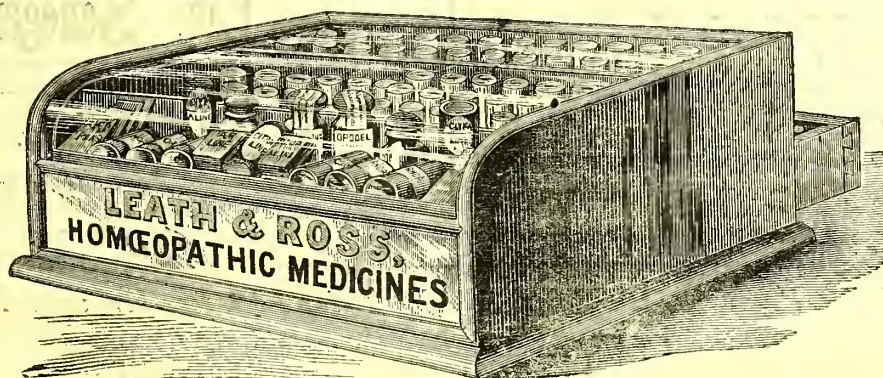
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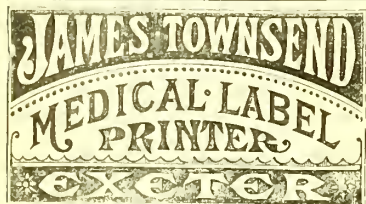
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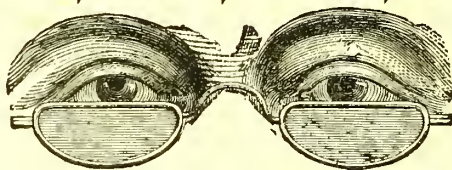


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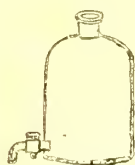
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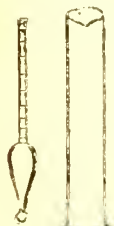
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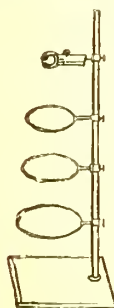
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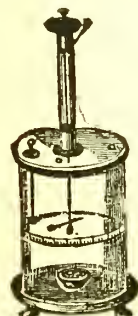
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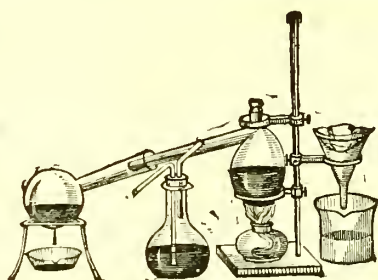
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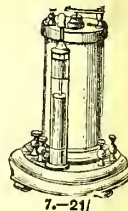
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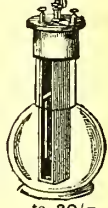
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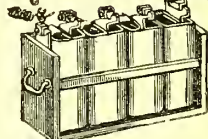
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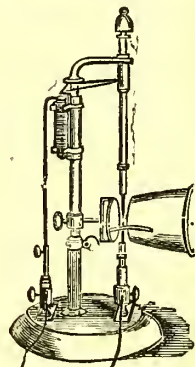
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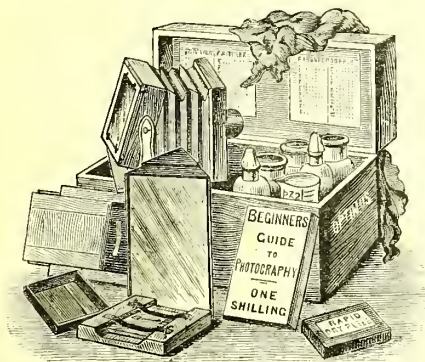


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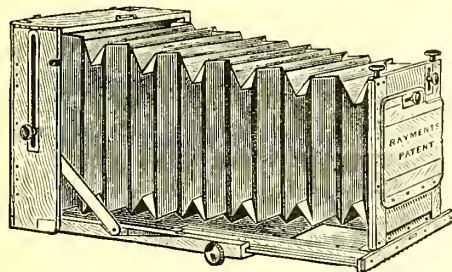
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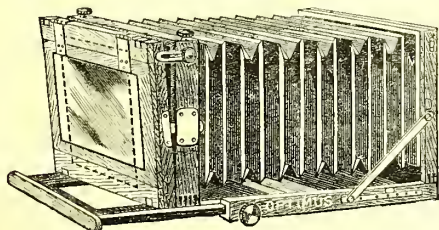


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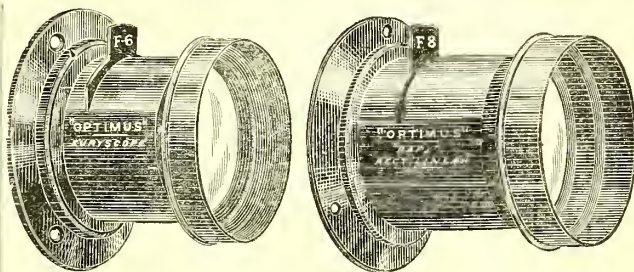


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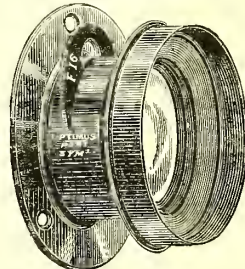
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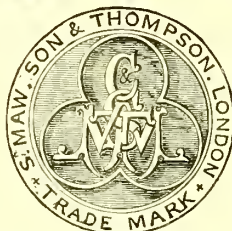
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Imparts an exquisite Ginger Aroma. Trade Price, 5s. 6d. per lb.; 12 lbs. and upwards, 5s. Quantity required, five fluid ozs. to each gallon of Syrup, making 106 10-oz. bottles.

### HAY'S GINGER ALE EXTRACT. FOR SECOND QUALITY GINGER ALE.

Imparts Pungency, Colouring, great Brilliance, and an unusually Fine Ginger Flavour and Aroma. Trade Price, 4s. 6d. per lb.; 12 lbs. and upwards, 4s. Quantity required, three fluid ozs. to each gallon of Syrup, making 106 10-oz. Bottles.

### HAY'S GINGER ALE ESSENCE. Highly Concentrated. FOR THIRD QUALITY GINGER ALE.

This Essence makes a Ginger Ale that is unsurpassed by the so-called finest Belfast. Trade Price, 9s. per lb.; 12 lbs. and upwards, 8s. 6d. Quantity required, half a fluid oz. to each gallon of Syrup, making 106 10-oz. Bottles.

### HAY'S GINGER CHAMPAGNE ESSENCE.

This Essence is a combination of the finest flavours, and imparts with the Ginger a most exquisite aroma. Trade Price, 8s. per lb.; 12 lbs. and upwards, 7s. 6d.

### HAY'S SOLUBLE ESSENCE OF MESSINA LEMONS.

No. 1. Highly Concentrated. Trade Price, 8s. 6d. per lb.; 12 lbs. and upwards, 8s. Quantity required, three-quarters fluid ounce to each gallon of Syrup, making 103 10 oz. bottles.

### HAY'S SOLUBLE ESSENCE OF MESSINA LEMONS.

No. 2. A magnificent preparation. Makes an exquisitely fine Lemonade. Trade Price, 6s. 6d. per lb.; 12 lbs. and upwards, 6s. Quantity required, one fluid ounce to each gallon of Syrup, making 103 10 oz. bottles.

### HAY'S LEMON FLAVOUR.

No. 1. An Exceptionally Fine Essence, makes a delicious Lemonade, to which it imparts all the Fine Aroma and Flavour of the choicest Lemons. Trade Price, 5s. per lb.; 12 lbs. and upwards, 4s. 6d. Quantity required, one fluid ounce to each gallon of Syrup, making 106 10-oz. Bottles.

### HAY'S LEMON FLAVOUR.

No. 2. A very fine Essence, prepared from the fresh fruit. Trade Price, 4s. 6d. per lb.; 12 lbs. and upwards, 4s. Quantity required, one-and-a-quarter fluid ounce to each gallon of Syrup, making 106 10 oz. Bottles.

### HAY'S HOP ALE ESSENCE.

This Essence is made from the Choicest Hops grown, and is unrivalled for its peculiarly fine Hop flavour and aroma. Hop Ale made from this Essence has the full flavour of the finest Hops, and is a really appetising Bitter Beer. Trade price, 8s. 6d. per lb.; 12 lbs. and upwards, 8s. Quantity required, two fluid ozs. to each gallon of Syrup, making 106 10-oz. Bottles.

For Orange, Vanilla, and all other Essences send for Price List.

[2]

**W. HAY, Manufacturing Chemist, Beverley Rd., HULL. ENGLAND.**

The difference between preparations made from HAY'S ESSENCES and those made from the numerous SPURIOUS IMITATIONS of them bearing the name of SOLUBLE ESSENCES is most marked, and no manufacturer using the latter can compete with one using HAY'S PREPARATIONS, as is universally known.

Indentors, to prevent disappointment, should specify that the Goods are to be of HAY'S MANUFACTURE.



BY ROYAL LETTERS PATENT.

# HASSALL & CO.'S PHOSPHO-CITRIC ACID

Is the Best, Purest, and most Economical Agent for Acidulating all Saccharine Beverages.

Price only **10d.** per lb., in 9 and 18 gallon casks ; **1s.** per lb. in small quantities.

One Ounce Measure is equal to One Ounce of Citric. It produces a higher class Beverage, and shows an economy of between £6 and £7 per cwt.

We do not ask for an order, we merely solicit the favour of a trial.

3-oz. Sample for Postage (3 stamps), or 14 lbs. on approbation.

**PAMPHLET GRATIS.**

## UNSOLICITED TESTIMONIALS.

We are pleased to be able to testify that your Phospho-Citric Acid is satisfactory under the most severe trials. We have placed Manufactured goods in which your Acid was used in a refrigerator for months, and also for nine months in a stove in which the temperature stands at over 150° day and night, and the bottles when examined to-day were as bright as the day they were put in. ———, LONDON.

I have pleasure in bearing testimony to the fact that first-class waters are produced, with greater body and finer fruity flavour, at half the cost of Citric ; and further that your Acid is free from all traces of **LEAD**, generally found in the crystals. I am persuaded that your Acid will ultimately command the Mineral Water Trade. LEMON STREET, ABERDEEN.

Yours faithfully, WM. THOMSON.

"And may I also be permitted to add my testimony to the excellence of your Phospho Citric Acid ; I consider it far and away preferable to Citric." O. H. ORTON, STOKES GOLDING.

## FERMENTATION.

When Fermentation is present, Saccharine Beverages made with this Acid will keep sound and bright several days longer than those made with Crystal Acids.

**HASSALL & CO.**  
**YORK ROAD, KING'S CROSS, LONDON.**

TELEGRAMS:—"REMPUJARON LONDON."



# W. J. BUSH & CO.'S ENGLISH DRAWN ESSENTIAL OILS.

Always Uniform and of Exceptionally Fine Quality.

THE ONLY MAKERS OF EVERY KIND OF ENGLISH DRAWN ESSENTIAL OILS.

## CONCENTRATED FRUIT ESSENCES.

Five or Six times the Strength of, and Vastly Superior to all others.

## SOLUBLE ESSENCES.

Much Stronger and Infinitely Superior in Flavour to all Imitations,  
consequently cheaper in use.

## SOLUBLE ESSENCE OF JAMAICA GINGER

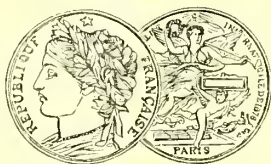
THE FINEST, STRONGEST, AND CHEAPEST IN THE TRADE.

## SOLUBLE ESS. LEMON

## ESS. BELFAST GINGER ALE.

## FRENCH GUM

*Exposition Universal, Paris, 1878.*



## CREAM EXTRACT.

PROTECTED BY ROYAL

MEDAILLE D'ARGENT.

LETTERS PATENT.

or producing a permanent head of creamy richness upon all kinds of Syrups, Mineral Waters, Cyders, Beers,  
Ales, Wines, and all other liquids or beverages where a frothy foam or head is required. [2]

PROCEEDINGS WILL BE TAKEN AGAINST ANY INFRINGEMENT OF THIS PATENT.

ARTILLERY LANE, BISHOPSGATE STREET, LONDON.



# The Chemists Aërated & Mineral Waters Association. Limited London Harrogate Bristol

## THE CHEMIST'S TRUE FRIEND.

Established in 1878 to supply Chemists ONLY with the Highest Quality of  
Aërated Waters at the Lowest Co-operative Prices.

Received with doubt, it worked its way uphill to success, and now fills more  
Syphons than any Maker in the United Kingdom.

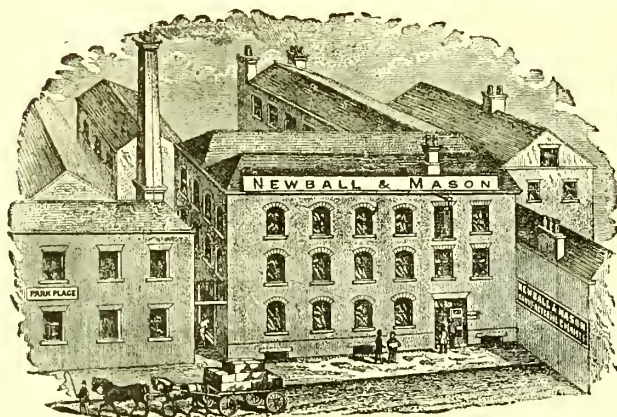
Number of Members, about 1,800. Last Dividend,  $7\frac{1}{2}$  per cent.

**SECURE A SHARE WITHOUT DELAY.**

Write—Secretary, 45 Gifford St., Caledonian Road, London, N., for Samples, Prices, &c.

## NON-INTOXICATING BEER

PRODUCED AT A SMALL COST AND LITTLE TROUBLE.  
ONE TABLESPOONFUL MAKES A GALLON.



**MASON'S ORIGINAL**

**EXTRACT OR ESSENCE OF HERBS**

(REGISTERED).

Composed of Yarrow, Dandelion, Comfrey, & Horehound.

FOR THE SPEEDY PRODUCTION OF

**HERB OR BOTANIC BEER**

This invaluable preparation is carefully compounded from the  
above well-known Herbs. Notwithstanding so many imitations  
got up to resemble the original, it stands unrivalled for the  
production of a most delicious, wholesome, and non-intoxicating  
beverage, full of body and flavour, and a rich creamy head like  
bottled ale.

INVENTORS AND MANUFACTURERS—

**NEWBALL & MASON, Chemists**  
Park Place, NOTTINGHAM.

WHOLESALE AGENTS.—LONDON—Sanger & Sons, Lynch & Co.  
Barclay & Sons, Edwards & Sons, Newbery & Sons, Hovenden & Sons  
Sutton & Co. LIVERPOOL—Evans, Sons & Co.; Jno. Thompson  
LEEDS—Goodall, Backhouse & Co.

COLONIAL AGENTS WANTED.

**BEWARE** OF MEAN & FRAUDULENT  
**BEWARE** IMITATIONS.  
**BEWARE** OF OTHERS COPYING our  
Handbills and Labels.  
**BEWARE** OF CHEAP FOREIGN  
PRODUCE.

**MASON'S IS A SPECIAL COMPOUND  
AND THE ORIGINAL PREPARATION.**

**ALL OTHERS ARE IMITATIONS.**

Sold in Bottles, 6d., 1s., 2s., 5s., and 20s. each.

Is not Affected by Climate or Weather.

Prices, Circulars, Show Cards, &c., on application



# JEWSBURY & BROWN'S

(MANCHESTER)

## SPARKLING TABLE WATERS,

UNRIVALLED FOR PURITY AND QUALITY.

SODA WATER.

LEMONADE.

SALTZGER WATER.

GINGER ALE.

SODA WATER.

QUININE TONIC.

LITHIA WATER.

GINGER BEER.

SIMPLE

AERATED WATER.

HOREHOUND BEER.



### EXTRACTS FROM ANALYTICAL REPORTS.

Examination of the Waters which I have made has satisfied me that they are prepared with the greatest care, and are of excellent quality."  
 FRANCIS JONES, F.R.S.E., F.C.S.  
 "The whole, I have no hesitation in stating that your Aërated Waters are of the best standard of purity which is practically attainable."  
 LOUIS SIBBOLD, F.I.C., F.C.S.

"The Lemonade is, for flavour and general excellence, superior to any similar compound which I have examined, and contains no acid but Citric Acid."  
 "I took a sample of the water used in your manufactory, in the preparation of the Aërated Waters, and found it, as was the case with the completed compounds, entirely free from lead, copper, or any injurious matter whatever."  
 C. ESTCOURT, F.C.S., F.C.I.

's Syphons are mounted with PURE BLOCK TIN, thus ensuring absolute immunity from dangerous metallic contamination.

MARKET STREET, and 44 DOWNING STREET, MANCHESTER.

THE MEDAL

ESTABLISHED 1812.

HEALTH  
EXHIBITION.

# POTTER & CLARKE,



Registered Trade Mark

WHOLESALE AND EXPORT BOTANIC DRUGGISTS,  
 75 WESTON STREET, LONDON, S.E.

SPECIALITIES—

## POTTER'S HERB BEER EXTRACT

the production of a splendid Botanic Beer, with a good colour, flavour, and body, and a creamy head like bottled ale.  
 demand for this article last year was exceedingly large, and the demand this year bids fair to be still larger. All Chemists will find it a profitable article of sale.

Price 10d. per lb. Special quotations for quantity. In 6d. Bottles, 3/6 per dozen.

Supplies of printed matter sent with all 6d. Bottles. Will keep good in any climate.

FLUID EXTRACTS.

NEW REMEDIES.

## MEDICINAL HERBS IN PACKETS.

Special Agents for Messrs. Parke, Davis & Co.'s Fluid Extracts, Concentrations, Pressed Herbs, &c.

Price Lists on application. Telegraphic Address—"HOREHOUND, LONDON."

FOREIGN INDENTS RECEIVE OUR SPECIAL ATTENTION.



# CELEBRATED D. FEVRE'S SELTZOGENES.

COMPLETE WITH FITTINGS.

GUARANTEED TESTED

by 175 lbs. of pressure per square inch.

BEST AND CHEAPEST.

## CAUTION.

To ensure the purchase of the  
genuine celebrated

## SELTZOGENES OF D. FEVRE,

which do not cost more than the  
imitations, observe on the shoulder  
of the apparatus the words—

"VERITABLE SELTZOGENE D. FEVRE,"

AND THE TRADE MARK SIGNATURE—

*D. Fevre*

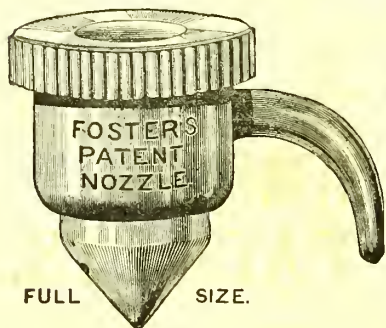
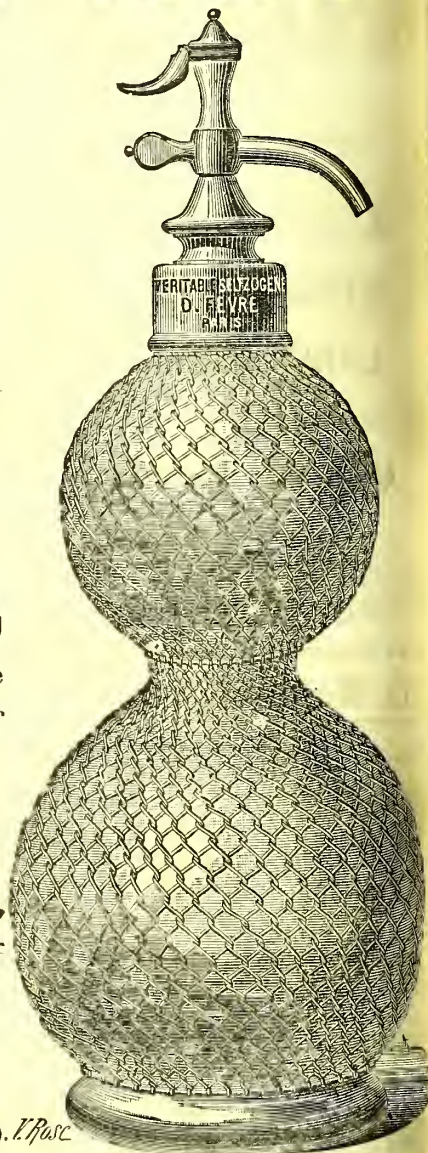
## THESSIER-FEVRE.

Sole Manufacturer,

OFFICE—

WORKS—

398 Rue St. Honore, PARIS. 9 Rue Castex (Near the Bastille). France



Price 1s. 6d. each.

**FIRE!!**

**FIRE!!**

## FOSTER'S PATENT NOZZLE

For Converting Syphon Bottles immediately into

**FIRE EXTINGUEURS.**

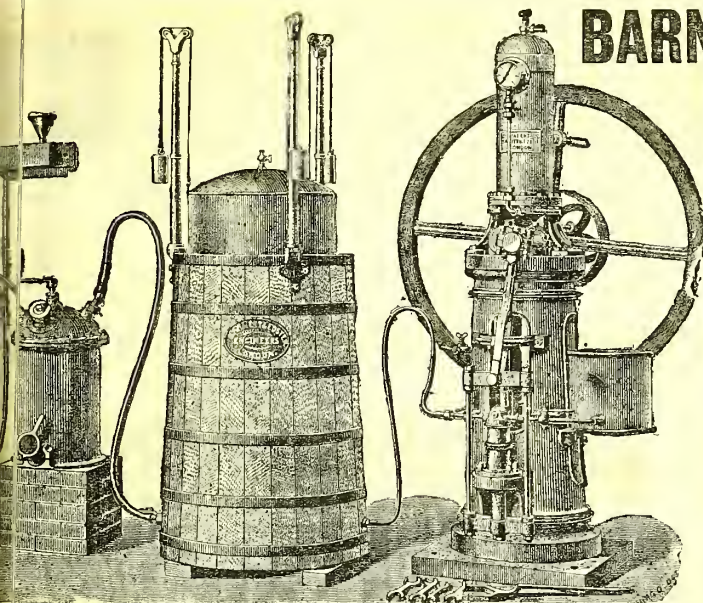
In Fancy Boxes containing 1 doz. Nozzles, 18/ each. Trade Discount, 33½ per cent.  
Handsome Showcard and Handbills given gratuitously.

Every room in every house should have a Syphon Bottle fitted with a Nozzle, ready for immediate use. It forms the Simplest and most Reliable Fire Extingueur ever invented.

**BARNETT & FOSTER, Manufacturers,**

"Niagara Works," 26<sup>T</sup> Eagle Wharf Road, LONDON, N.





# BARNETT & FOSTER,

## MINERAL WATER AND ICE MACHINISTS,

*Bottle & Box Makers, Manufacturing Chemists and General Providers for the Aerated Water, Wine, Beer, and Cider Trades.*

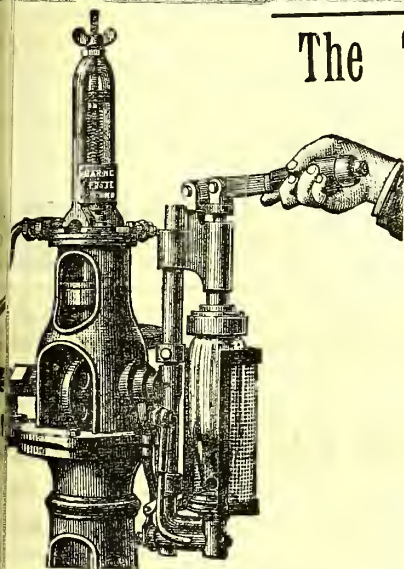
The "NIAGARA MACHINES" are fast superseding all other kinds, for the manufacture of first-class Aerated Waters, and are in use in most of the leading manfactories in the world.

A size, single, as drawing, capacity 600 doz. large bottles per day ..	£ 60
B size, single, as drawing, capacity 1,200 doz. large bottles per day ..	75
C size, Double Pumps and Cylinder, 2,400 doz. large bottles per day ..	125
D size, Double Pumps and Cylinder, 4,000 doz. large bottles per day ..	180
E size, Double Pumps and Cylinder, 7,000 doz. large bottles per day ..	250

*Thousands of Testimonials have been received by us from users of these Machines*

Send for particulars of the "NIAGARA" AUTOMATIC GENERATOR, the perfection of ingenuity. It is Self-feeding with Whiting and Acid, and Self-emptying; is the most economical in material and labour, saving an estimated amount of 50 per cent.

## The "Excelsior" Turnover Filling Machine.



This is the most serviceable, reliable, and economical in the market. A boy can syrup and fill 60 to 80 dozen per hour.

There is no Waste of Syrup, Water, or Gas!

It has the only Syrup Pump where there is no strain upon the glass barrel, consequently this never breaks. The Pump Leather is self-tightening, and will last for years without touching!

It is the quickest in filling!  
It is the quickest for altering and adjusting syrup!  
It is by far the strongest!  
It is comparatively valveless!  
It is the simplest to work and most lasting!  
It is not liable to get out of order, having but few working parts!

Price, with Glass Barrel Syrup Pump, and all recent improvements, including also an extra glass barrel, and set of spanners, **£9 9s.**

Where power is used we recommend the "ECLIPSE" Filling Machine! By this a boy or girl places two bottles in at a time, and can syrup, fill, and deliver full-sized bottles at the rate of 120 dozen per hour! Estimated cost of filling,  $\frac{1}{4}$ d. per gross of first-class waters.



## THE TRIUMPH OF THE AGE

### IS THE "NIAGARA" BOTTLE, Or Improved CODD.

Everyone admits it is the most perfect in the market. Send for Sample and compare!

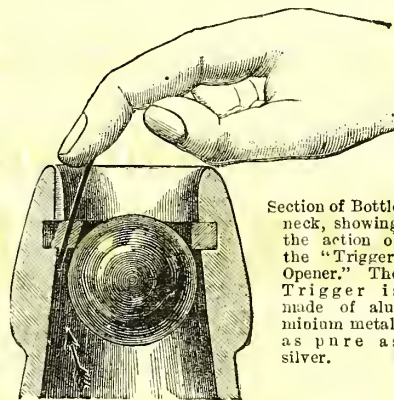
Prices at the Works (Hunslet, Yorkshire), including Rings :-

	5oz.	7oz.	10oz.	12oz.	14oz.	16oz.	
"Niagara" Bottle (Improved Codd's)	14/	15/	16/	15/6	17/6	18/6	Per Gross.
Do. and "Trigger-opener"	19/	20/	21/	21/6	22/6	23/6	
Delivered in London, or f.o.b. for Export, add 1/6 to 2/ per gross.							
Export Cases, holding 1 gross 10-oz., or 2 gross 5-oz., 2s. each; extra strong Cases, 3s. each.							

Name on Bottles free, for orders of 30 gross. Moulds charged 10s. for orders of 10 gross or upwards for each size or shape.

Extra Rings, 1s. 8d. per gross (say if Patent Split Rings).

The first to introduce this Bottle and unique means of opening in his district must at once command a monopoly of the Trade, as our experience confirms us in the statement that WHEN ONCE TRIED, THE PUBLIC WILL HAVE NO OTHER.



Section of Bottle neck, showing the action of the "Trigger-Opener." The Trigger is made of aluminium metal, as pure as silver.

SEND FOR ILLUSTRATED CATALOGUE.

## BARNETT & FOSTER,

"NIAGARA" WORKS, 26<sup>th</sup> EAGLE WHARF ROAD, LONDON N.

HIGHEST AWARDS AT ALL MOST IMPORTANT EXHIBITIONS SINCE 1851.



# KRONENQUELLE

(CROWN SPRING)

REGISTERED.

## THE NEW NATURAL MINERAL WATER FOR GOUT & RHEUMATISM

*May be had through all WHOLESALE HOUSES, or from the following:—*

BRISTOL—Messrs. INGRAM & ROYLE; CHEMISTS' AERATED & MINERAL WATER ASSOCIATION, LIM.  
EDINBURGH—Messrs. DUNCAN, FLOCKHART & CO.  
HALIFAX—Messrs. KERR & JUBB.  
LEEDS—Messrs. GOODALL, BACKHOUSE & CO.  
LIVERPOOL—Messrs. INGRAM & ROYLE.  
MANCHESTER—Messrs. WOOLLEY, SONS & CO.

LONDON—Messrs. INGRAM & ROYLE; Messrs. W. BEST & SONS; Messrs. GALLAIS & CO.; THE APOLLINARIS COMPANY, LIMITED; CHEMISTS' AERATED & MINERAL WATER ASSOCIATION, LIMITED.  
NEWCASTLE—Messrs. JOHN ISMAY & SONS.  
WREXHAM—CHEMISTS' AERATED & MINERAL WATER ASSOCIATION, LIMITED.

**W. SCHACHT & CO.,** Sole Consignees, **LONDON. E.C.**

### KINMOND'S Royal Leamington APNEUMATIC TABLE WATERS

Were first supplied to H.M. the Queen in 1856,  
and to H.R.H. the Prince of Wales in 1862.

### KINMOND'S GINGER ALE,

AND ALL THEIR OTHER WATERS,  
Are UNRIVALLED for PURITY and QUALITY.

*In Ordinary Bottles and Syphons.*

MANUFACTORY—  
**LEAMINGTON.**

### TEMPERANCE BEVERAGES.

*A Sixpenny Bottle of*

#### ADAMS'S EXTRACT OF HERBS

Will make 8 gallons of sparkling, wholesome, and refreshing

**PRIME HERB OR BOTANIC BEER.**

*Unequalled in strength and richness of flavour by any preparation made from fresh herbs.*

The Extract is very carefully manufactured, on the most improved scientific principles, from the herbs and plants gathered and dried at the proper season, when their virtues are in full vigour, thus retaining their invigorating and health-giving properties.

It makes an excellent beverage, giving natural flavour and colour, and a sparkling foam like bottled ale.

*In Bottles, 6d. to make 8 gals.; 1s. to make 18 gals.; and 2s. 6d. to make 50 gals.*

#### ADAMS'S GINGER ALE ESSENCE

makes a sparkling, refreshing, and invigorating beverage for summer and winter.

#### ADAMS'S SPARKLING FOAM PRODUCER.

One tablespoonful added to 2 gallons of the Herb Beer or Ginger Ale, just before bottling, gives a creamy foam like bottled ale.

Wholesale Agents,

**W. EDWARDS & SONS, Queen Victoria St., London.**

Specially favourable terms to large Buyers from the  
PROPRIETOR,

**B. ADAMS, Mansfield, Notts.**

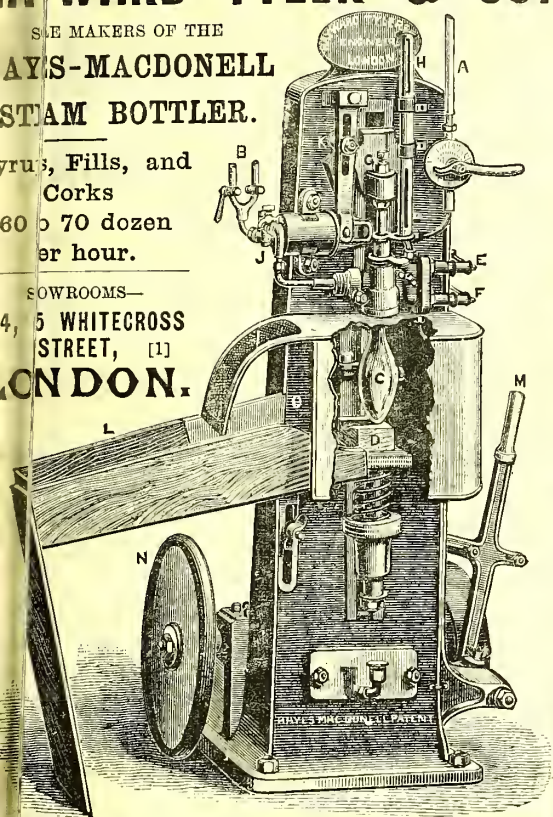


**HAYWARD TYLER & CO.**

SOLE MAKERS OF THE  
**HAY'S-MACDONELL**  
**STEAM BOTTLER.**

Syrups, Fills, and  
 Corks  
 60 to 70 dozen  
 per hour.

SHOWROOMS—  
 4, 5 WHITECROSS  
 STREET, [1]  
 LONDON.



TO AERATED WATER MANUFACTURERS

**HAY'S**

**SOLUBLE ESSENCES**

ARE GUARANTEED TO BE THE FINEST IN THE MARKET

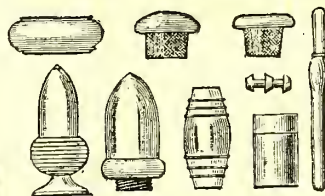
**GINGER, ROP, LEMON & CO.**

W. HAY, MANUFACTURING CHEMIST

**HAY'S**

In ordering specify HAY'S Manufacture.

See pages 16-17.



**IRVIN &**  
**SELLERS,**  
 WOOD TURNERS,  
**PRESTON.**

SEE INDEX, PAGES 53-55.

**"PREMIER BRAND"**  
**ESSENTIAL OILS.**

**Concentrated Fruit Essences—Soluble**

MANUFACTURED BY

**JOHN CUMMOCK**

*Who has received Hundreds of Unsolicited Testimonials, also THREE GOLD MEDALS, besides other Honours.*

Chemists manufacturing their own Aerated Drinks should write for Prices and Samples of the following:—

**ESSENCE "SPARKLING LIMETTA"—Soluble "Essence of Lemon"**

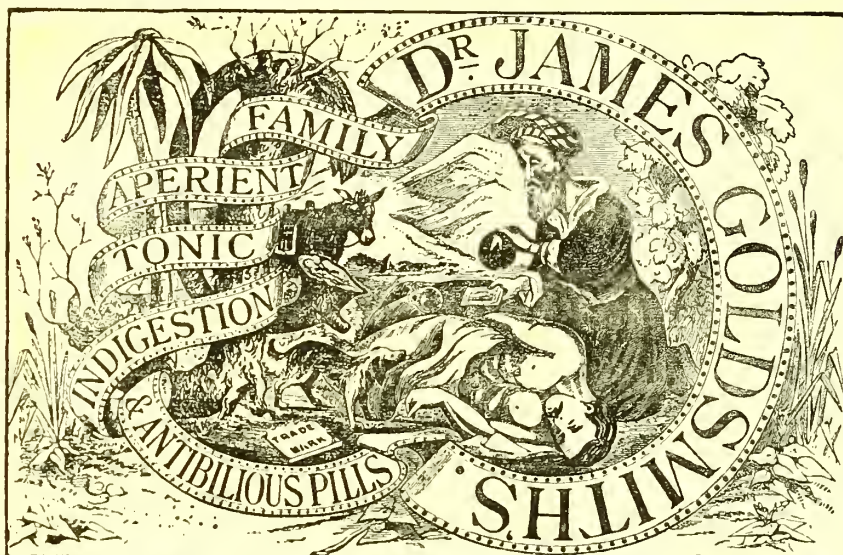
**ESSENCE "LEMON SQUASH"—Essence for Sherbet**

**ESSENCE "TONIC HEADING"—Essence for Ginger Ale**

**AND COMPARE WITH OTHER MAKERS.**

Manufactory & Offices: **45 ROPE WORK LANE, GLASGOW.**  
 LATE 32 MAIN STREET.





FOR  
IMMEDIATE  
DISPOSAL.

GREAT  
CHANCE

## IMPORTANT TO PRIVATE BUYERS.

An opportunity rarely happening occurs at present of acquiring a well advertised Patent Medicine, with Show Cards (in many colours), Blocks (of all sizes and kinds), Printed Matter, &c., &c., appertaining to same, with Patent Rights and Registered Trade Mark, Patentee having more work than he can attend to. This is a chance for a private buyer with push and energy of making a comfortable fortune in a few years. Above is the Trade Mark.

Apply in first instance to **BAISS BROS. & CO.**, Wholesale Chemists, LONDON.

Sample of Showcard,  $14\frac{1}{2} \times 10\frac{1}{2}$ , sent on application.

BY SPECIAL APPOINTMENT TO  
H.R.H. THE  
DUKE OF CONNAUGHT



AND THE  
ROYAL FAMILY.

# BOURNE WATERS.

THE PUREST IN ENGLAND.

Soda, Potash, Lithia, and Seltzer Waters,  
Lemonade, and Aromatic Ginger Ale,

IN 4-DOZEN AND 6-DOZEN CASES, CARRIAGE PAID,

Prepared with the celebrated Artesian Well Water from a great depth—neither pumped, cisterned, nor exposed to the atmosphere,  
and FREE FROM ALL CONTAMINATION.

The Natural Water sent out in QUARTS and PINTS for the use of Families as a TABLE WATER direct  
from the Spring without any exposure to the Air.

MANUFACTURERS:

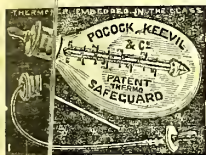
## R. M. MILLS & CO., BOURNE, LINCOLNSHIRE.

SOLD BY THEIR AGENTS THROUGHOUT ENGLAND.

Messrs. INGRAM & ROYLE, 52 Farringdon St., Wholesale Agents for the Sale of our Waters.



# THE PATENT THERMO SAFEGUARD FEEDING BOTTLES.



A THERMOMETER Embedded in the Glass.  
REDUCTION IN RETAIL PRICES TO  
1/-, 1/6, and 2/6 each.  
Wholesale of London Houses and  
**POCOCK, KEEVIL & CO.**  
72 Wandsworth Road, S.W.

## NEW HEALTH FOOD FOR CHILDREN! HEALTH & PEACE IN THE NURSERY! NO MORE CASTOR OIL! THE "CHILDREN'S BREAD."

A special new preparation for Children of DAHL'S DYSPEPSIA CAKE.  
Entirely free from all Drugs. Prepared from the cortical layers of various cereals,  
they are not only rich in nutritive materials for the formation of blood and bone,  
but only those ingredients which keep the bowels open and which are lacking in  
ordinary bread. No family should be without this most nourishing and easily-  
digestible food. "Broken up and well boiled in milk, they form a very palatable com-  
pound, well adapted for the nursery and for invalids. You know what mignonette  
means in the language of flowers—your qualities exceed your charms." This  
applies to the Cake. I think they ought to come into extensive use in girls' schools."  
—Extract of letter from the late Dr. Milner-Fothergill.

2/- per box. Of all Chemists.

DAHL'S AGENCY—41 EASTCHEAP, LONDON.

## E. FOUGERA & CO.,

No 30 NORTH WILLIAM STREET,  
NEW YORK, U.S.A.,

Importers of and Agents for the Principal  
FOREIGN MEDICINAL PREPARATIONS  
AND SPECIALTIES.

AGENCIES AND CORRESPONDENCE SOLICITED.

TO AERATED WATER MANUFACTURERS

# HAY'S HOP ALE ESSENCE

REGISTERED TRADE MARK

FOR THE MANUFACTURE OF THE FINEST  
AERATED HOP ALE

W. HAY, MANUFACTURING CHEMIST

# HULL.

IN ordering, specify Hay's Manufacture

See pages 16-17.

## GINGER BEER POWDERS

Buyers of Ginger Beer  
Powders should apply to  
CAVELL & CO., Broad Street,  
Whittlesea, Cambridge-  
shire, for Samples and  
Terms, which are lower  
than any maker, and an  
article far superior to  
any yet prepared. *Vide*  
*Testimonials.*

# DOULTON & CO., LAMBETH, LONDON, S.E.

MANUFACTURERS OF EVERY DESCRIPTION OF

## WATER FILTERS.

NEW PATENT

Manganous Carbon FILTERS.  
Boudoir and Table FILTERS.  
Pocket and Syphon FILTERS.

House Supply or Cistern FILTERS.  
Patent Granular Charcoal FILTERS.  
Refrigerator FILTERS.

## MAIN SERVICE FILTERS

FOR INTERMITTENT OR CONSTANT SUPPLY.

See Reports, Analyses, &c. Detailed Lists on application.

To be obtained of all Dealers.

# DOULTON & CO., LAMBETH, LONDON, S.E.

DEPOTS:—100 Soho Street, LIVERPOOL; Granville Wharf, BIRMINGHAM; and 6 Rue de Paradis, PARIS.

Introduced 1855.]

## ROBINSON'S CONCENTRATED WATERS.

[Introduced 1855.

Once of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopoeia, and free from all Chemical impurity. They will keep good any length of time in any climate.



Aqua Anethi, Concent., 4/ lb.	Aqua Cinnam. Ver. Concent., 6/ lb.	Aqua Foeniculi, Concent., 4/ lb.	Aqua Pimentis, Concent., 4/ lb.
" Anisi, 4/ "	" Cassia, 4/ "	" Menth. Pip., 4/ "	" Rosae, 8/6..
" Camphorae, 4/ "	" Flor. Aurant., 8/6..	" Ang., 6/ "	" Rosae Virgin., 10/6..
" Carui, 4/ "	" Flor. Sambuci, 8/6..	" Virid., 4/ "	

The above are put up in Bottles of 1 lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.

From the LANCET, July 15, 1882:—"CONCENTRATED WATERS (Robinson's, Pendleton, Manchester).—Among the samples sent to us we find Aq. Anethi, Anisi, Cinnam. Ver., Rosae, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopoeia. They are excellent in quality, and will be very useful, especially in country practice."

Wholesale Agents: HEARON & Co., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR.

B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.

# EUCALYPTUS GLOBULUS.

We distil pure oil of Eucalyptus GLOBULUS as a by-product in the manufacture of our Eucalyptus Boiler Fluid, and are, therefore, enabled to place it in quantities at a lower rate than has heretofore been asked for it.

DOWNIE B. I. P. CO., 4 Redcross St., LIVERPOOL;  
And 204 MARKET STREET, SAN FRANCISCO.



# GOODALL, BACKHOUSE & CO.



## WHOLESALE & EXPORT DRUGGISTS,



Druggists' Sundrymen, Patent Medicine Dealers,  
Drug and Spice Grinders, Distillers and Drysalters.

## MANUFACTURING & ANALYTICAL CHEMISTS,

IMPORTERS OF

Olive Oil, Castor Oil, Cod-liver Oil, Essence of Lemon, Cream  
of Tartar, Bees Wax, Dalmatian Insect Flowers, &c., &c.

### SPECIAL MANUFACTURES—

Acetate of Amyl.

„ of Lead.

Acetic Ether.

Alcohol, Absolute.

Ammon. Bromid.

Barium Chloride.

„ Nitrate.

Citrate of Iron and Quinine.

„ of Potash.

Decoctions, Infusions, & Liquid

Extracts (concentrated in vacuo).

Ferri Iodid.

„ Sulph., Pure.

Lac Sulph.

Orange Quinine Wine, B.P.

Phosphate of Soda.

Phosphoric Acid.

Potass. Iodid.

Potass. Bromid.

Salts of Lemor.

Sodii Bromid.

Spt. Æther. Nit.

„ Ammon. Co.

Sulphur Præcip., B.P.

Syrup Rhœados.

Terebene.

Verdigris.

AND ALL PHARMACEUTICAL PREPARATIONS.

CITRATE OF MAGNESIA AND LEMON KALI.

HERB BEER EXTRACT AND COMPOSITION ESSENCE.

MAKERS OF ALL KINDS OF

PLAIN ROUND, SQUARE, AND OBLONG TINS.

PROPRIETORS AND SOLE MANUFACTURERS OF

GOODALL'S HOUSEHOLD SPECIALITIES,

KAYBERRY'S LUMBAGO PILLS,

AND

FREEMAN'S SYRUP OF PHOSPHORUS.

DETAILED PRICE LIST ON APPLICATION.

GOODALL, BACKHOUSE & CO., LEEDS.

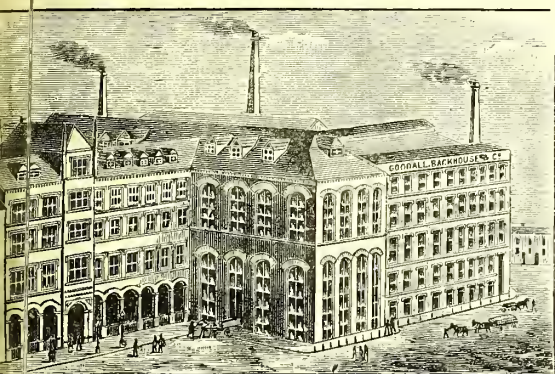
TELEGRAPHIC ADDRESS, "RELISH LEEDS."



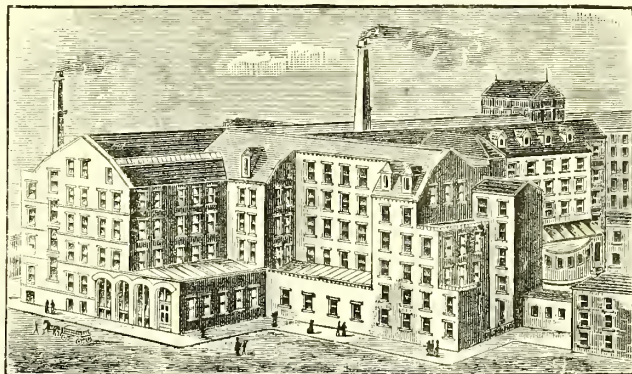
# GOODALL, BACKHOUSE & CO.'S

## PREMISES AT LEEDS,

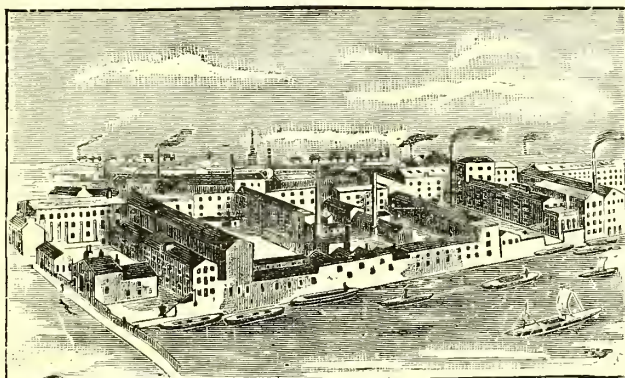
CONTAINING A FLOOR AREA OF EIGHT ACRES.



Warehouse and Offices, White Horse Street—West View.



Warehouse and Offices, White Horse Street—South and East Views.



Manufactory, Sovereign Street. Frontage 1,048 feet.



## GOODALL'S HOUSEHOLD SPECIALITIES.

### YORKSHIRE RELISH,

MOST DELICIOUS SAUCE IN THE WORLD.  
In Bottles, 6d., 1s., and 2s. each.

### GOODALL'S GINGER-BEER POWDER,

MAKES THE BEST GINGER BEER.  
Packets, 3d. and 6d. each.

### GOODALL'S BAKING POWDER,

THE BEST IN THE WORLD.  
1d. Packets; 6d., 1s., 2s., and 5s. Tins.

### GOODALL'S BRUNSWICK BLACK,

FOR PAINTING STOVES, GRATES, IRON, TIN, &c.  
6d. and 1s. Bottles.

### GOODALL'S EGG POWDER,

ONE 6d. TIN IS EQUAL TO 25 EGGS.  
In 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

### GOODALL'S LAVENDER WATER,

A RICH AND LASTING PERFUME.  
In Bottles, 1s., 2s., 5s., and 10s. 6d. each.

### GOODALL'S CUSTARD POWDER,

DELICIOUS CUSTARDS WITHOUT EGGS.  
In Boxes, 2d., 6d., and 1s. each.

### GOODALL'S PLATE POWDER,

FOR POLISHING AND CLEANING ALL METALS.  
Boxes, 6d., 1s., and 2s. each.

### GOODALL'S QUININE WINE, B.P.

BEST TONIC YET INTRODUCED.  
Bottles, 6d., 1s., and 2s. each.

### GOODALL'S CALF'S FOOT JELLY,

PURE, STRENGTHENING, AND PALATABLE.  
In Bottles, 6d., 1s., and 2s. each.

## GOODALL'S BLANCMANGE POWDER,

DELICIOUS BLANCMANGE IN A FEW MINUTES. In Boxes, 6d. and 1s. each.

## Proprietors—GOODALL, BACKHOUSE & CO., LEEDS.

## PATENT MEDICINES AND GROCERS' SUNDRIES.

Monthly Price List of Patent Medicines, Grocers' Sundries, &c., will be sent post-free on application to

**GOODALL, BACKHOUSE & CO., LEEDS.**



# PAIN-KILLER

THE right to our trade-mark having been often infringed upon, we have had frequent occasion to examine the reports of trade-mark cases, both in the courts of this country and England.

The principles which control the use of trade-marks are generally well understood in all business communities. So uniform are they to every fair mind, that they are seldom regulated by statute, but are left to the equitable power of the tribunals of law. In England, as well as in the United States, the position of the judiciary on this question is perfectly established and clearly defined. The Courts hold all counterfeits of trade-marks as frauds upon the original manufacturers. Where the resemblance is intentional, they award punitive as well as equitable damages. Where the counterfeiting is not exact, if the degree of similitude be sufficient to mislead, they hold that to be a violation of equity. Where the seller, using the fictitious fraud, advises his customer that the mark is not genuine, he is liable for damages, since, though he does not himself deceive, he puts it in the power of others to mislead. The plain conclusion is that every counterfeit, or approach to a counterfeit, of any original mark upon merchandise, whereby one person is able either to reap advantage from the reputation gained by another trader, or to palm off an inferior article as something better than it is, will be held by the Courts to be a fraud upon the inventor or originator of the mark. This is right and proper.

Trade-marks, in whatever they may consist, whether in names or symbols, possess the character of property; and the object of the law in protecting them against fraudulent appropriation is twofold:—

“First, to protect the public against the frauds and impositions of those who may seek to pass off their own wares as the wares of those of established reputation.

“Second, to secure to the skilful and industrious manufacturer, who by a long course of honest dealing has acquired the public confidence, the legitimate fruits of his skill and industry.”

The name “**PAIN-KILLER**” is our property as a trade-mark by right of originality by right of adoption and first use, by right of long-continued use, by right of long publishing it to the world as our adopted trade-mark, by right of large sums of money expended in advertising to make it favourably known for our benefit.

All these rights are fully recognised and protected by law, and we must apply the remedy when necessary.

**PERRY DAVIS & SON,** <sup>“</sup>PROVIDENCE,  
RHODE ISLAND, **UNITED STATES.**

**BRITISH AGENCY—**

**JOHN MORGAN RICHARDS,**

46 HOLBORN VIADUCT, LONDON, E.C.



# Progressive Pharmacy.



(This Photograph is one-tenth the size of the original articles.)

BURROUGHS, WELLCOME, & CO., LONDON.



# PROGRESSIVE PHARMACY.

## The Doctor's Desk and Cabinet.

THE DOCTOR'S DESK AND CABINET (as illustrated in photograph on side) are the result of much study and experiment, with the view of giving a practical and useful Desk and Show-case, which could be most ably employed by Pharmacists, both for the convenience of physicians calling to write prescriptions, or to examine specimens of new remedial pharmaceutical products, for the display of which suitable space is provided in the Desk and upon the sliding shelves, and also in the glass-drawers of the Cabinet, which may take the place of a counter under the Desk, as in photo.

The price of Desk and Cabinet complete is £5 (which is considerably less than half cost to us), and are supplied at this special low price with understanding that they are to be used only for containing or holding various remedies and pharmaceutical products, and duplicate prescription books, supplied by ourselves.

The Desk alone we supply gratis (on loan) with orders amounting to the value of "Tabloids" and other goods of our make, at our usual prices for retail trade—10 per cent. discount, monthly account. The Desk is retained so long as it is used for the display of goods supplied by us.

Overall measure (Cabinet and Desk), 16×17 in.; height of cabinet of drawers, 33 in.; height of desk over cabinet, 6½ in.; height of columns of desk, 17½ in.; from floor to top of columns, 57 in.

## TRADE "Tabloids and Tablets."

Since our introduction (several years since, under the completely arbitrarily chosen titles of "Tablets" and "Tabloids"), into Great Britain and the Colonies, of a variety of Drugs in the form of bi-convex discs, use has greatly extended, and they have become one of the most convenient methods for the administration of medicines.

The form is especially useful for the use of drugs intended for effect, as upon the throat, as they dissolve slowly, and act as a continuous gargle.

SIR MORELL MACKENZIE was one of the first physicians to propose and recommend them in this country, and writes us concerning them, saying, "You have made a most valuable improvement in pharmacy."

The form is also exceedingly desirable for swallowing. The "Tabloids" go down much more readily than the ordinary round pills. Those which are intended for constitutional effect, as Quinine, Cascara (dry), and others, are compressed lightly, and are unexcelled for solution by any pills.

The "Tabloids" of Triturated Drugs are most exact and convenient for administering medicines in divided doses, as Tinctures, Alkaloids

## The "Kepler" Extract of Malt.

This Extract has now been several years before the medical profession of this and other countries, and appears to be universally regarded as THE BEST." We have spared no pains or expense in its manufacture, using the best English Barley Malt, and condensing in vacuo by means of the latest borate machinery and apparatus.

Undoubtedly the high reputation of Extract of Malt, as a digestive nutritive and reconstructive agent, has been created by the excellence of its manufacture, the extensive literature upon it, and our distribution of samples to the medical profession.

The demand for our products is constantly increasing, in the face of much competition from inferior Extracts at lower prices—which would be at half the money—physicians and patients always preferring our preparation after a comparative trial.

## The "Kepler Solution" of Cod Liver Oil

rapidly displacing the use of plain Cod Liver Oil and Emulsions, owing to its superior nutritive and digestive properties and palatable taste. It is not only easily digested, but is a positive aid of digestion. It is as clear and translucent in appearance as the plain Extract of Malt, no oil globules being visible; but when mixed with water, it forms a milky emulsion. The oil globules (under the microscope) are then seen to be more minute than in milk.

The *British Medical Journal* describes it as "An ideal form for the administration of fat, the flavour being agreeably disguised, the nutritive value increased, and the oil rendered easy of digestion."

The *Lancet* says: "It has hardly any of the taste of the oil. Many can take it easily, who cannot take the oil." It possesses the great advantage over all emulsions in that the oil, instead of being diluted with useless material (as water, gum, and sugar), is mixed with the "Kepler" Extract of Malt, which many physicians consider even preferable to Cod Liver Oil as a food and digestive in wasting diseases.

## The "Fairchild" Digestible Preparations

ARE PURE AND RELIABLE.

**ZYMINE** (*Extractum Pancreatis*), a pure Extract, for preparing peptonized foods for infants and invalids, as peptonized milk, beef tea, gruel, milk, jelly, &c.

**ZYMINE PEPTONIZING POWDERS** (in glass tubes).—Most convenient for peptonizing milk, one powder being sufficient for a pint of milk.

**PEPTONIZED (PEPTONIZED) SUPPOSITORIES** of Milk or Beef, for rectal feeding, by means of which patients have been kept alive when unable to eat or digest ordinary foods.

**PEPSIN IN SCALES (FAIRCHILD) AND SCALE PEPSIN** (dried), an unadulterated product, which will digest one thousand times its weight of coagulated albumen in the usual acid solution.

**PEPSIN TABLOIDS**, each containing one grain Scale Pepsin, with various aromatics, which considerably increase its activity. The Tabloids are by far the most active and convenient form for the administration of pepsin.

Zymine and Zymine Compound Tabloids are also supplied, and are, like the Fairchild products, highly esteemed by the medical profession.

## — Hazeline, —

The volatile active principles of the *Hamamelis*, obtained by distillation from the fresh bark.

Hazeline is both the most elegant and active preparation of *Hamamelis Virginica*.

The Witch Hazel was the favourite remedy of the aborigines of America for wounds, bruises, and painful tumours. It has been prescribed with great success, in hæmorrhoids, varicose veins, and inflammatory conditions, being especially useful also in diarrhoea, dysentery, and morbid conditions of the mucous membrane.

Hazeline Ointment, made by rubbing one part Hazeline with ten parts of Anhydrous Lanoline, is a most convenient method of use in hæmorrhoids.

\* \* \* \* \*

## Beef and Iron-Wine (Burroughs)

The *Lancet* says: "This is a really valuable preparation, and as we know, a novelty."

The *British Medical Journal* describes it as "a powerful blood tonic. It is a most valuable nutritive stimulant in exhaustion, convalescence from wasting diseases, and impoverishment of the blood. Its value has recently been enhanced by the addition of Quinine in small quantities."

One fluid ounce of any of our Valoid Fluid Extracts is equivalent to one ounce of Crude Standard Drug.

BURROUGHS, WELLCOME, & CO., Manufacturers to the Trade,  
SNOW HILL BUILDINGS, LONDON, E.C.

SEND FOR NEW LIST AND SPECIMEN COPY DUPLICATE PRESCRIPTION BOOK.



# HEALTHFUL AND DELIGHTFUL TOILET REQUISITE

**Toilet-Lanoline.**



Use Lanoline Soap.

## "Lanoline" Pomade.

...to the hair, "LANOLINE" once absorbed, restoring its lustre and nourishing its roots; also preventing dandruff, keeping the scalp clean and healthy and guarding against premature grayness and loss of hair. Use on natural hair.

**"Pinol" Perfume**  
from the purest of the finest  
Neroi, and a delightful  
essence of Water, pre-  
pared for the hand-  
and bath.



**"Pinol" Perfume**

**"Pinol" Perfume**  
Brings the health-  
ful ozone frag-  
rance of the  
upper Alpine  
forests within  
your doors

## "LANOLINE"

Being at once the blandest and most absorbable of all fats, and also an anti-septic agent, it is the best basis for a preparation like the "TOILET LANOLINE," for use as a protective emollient in chapping, roughness, abrasions, cuts, and wounds; and as a nutrient, preventing eruptions & wrinkles.

In collapsible tubes,  
8d. each,  
5/6 per doz.

## The "LANOLINE" TOILET PREPARATION

Are prepared upon thoroughly scientific principles and are pronounced by the highest authorities superior to those which are prepared from common fats, which develop acne, sometimes cause diseases of the skin and hair.



The "LANOLINE" Cream Preparation prepared from a purified wool fat, unlike ordinary oils, is superior to the hair, and is especially useful for shaving and shampooing, acting as a revivifier of the hair and beard.

# LANOLINE TOILET SOAP.

Softens, Soothes and Invigorates.  
"Lanoline" Soap acts as a natural preservative to the skin, restoring its soft, pliable and elastic surface. It is especially useful for shaving and shampooing, acting as a revivifier of the hair and beard.



**The Natural Skin Soap.**  
This delightful Toilet Soap is prepared from the purified fat of the sheep's wool. To our preparation of this wool-fat we have given the name "Lanoline," identical with the fat of the human skin and hair.

OUR PINE PRODUCTS ARE GUARANTEED TO BE UNEXCELLED BY ANY.

## Burroughs, Wellcome & Co. "PINOL"

To distinguish this preparation of the pure essence of volatile oil, distilled from the needles of the Alpine Pine, Pinus Pumilio, we have adopted for it the arbitrarily selected word "Pinol." It is prepared from that species growing nearest the line of perpetual snow, and differs from the common pine oils in possessing superior medicinal and sanitary properties and an exquisite fragrance.

Supplied in "Faporoles" for Inhalation and Pastilles for the Throat.  
Snow Hill Buildings, London, E.C.

**Extract Pinolio (BURROUGHS)**  
Possesses remarkable stimulating and refreshing properties upon the skin, forming a being especially useful in Rheumatism.

**PRICE**

"Pinol" Fine Extract	1/6
"Pinol" Pastilles	2/6
"Pinol" Perfume	3/-
subject to usual discount.	

Chemists will find it a profitable investment to order a supply of the above fashionable and excellent Toilet Preparations, which command a ready sale wherever introduced.

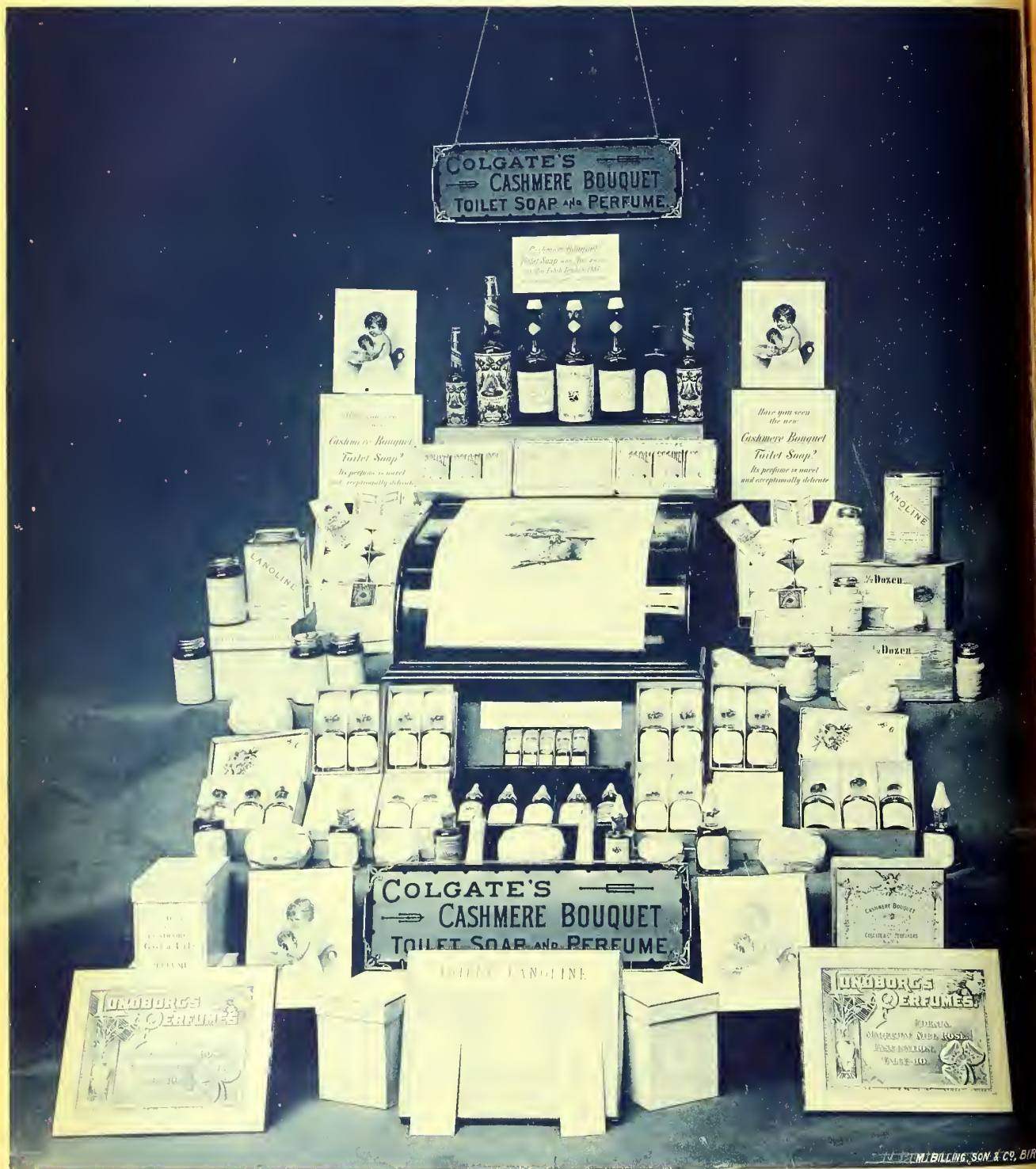
We are prepared to supply Samples of Colgate's Soap, also of "Lanoline" Soap, for free distribution, to Chemists who stock the goods, and write for the Samples, direct or through their wholesale houses.

**Burroughs, Wellcome, and Co., Snow Hill, London,**



# → The Finest Toilet Requisites, ←

PREPARED ON SCIENTIFIC PRINCIPLES.



(This Photograph is one-tenth the size of the original articles.)

GENERAL DEPOT: SNOW HILL BUILDINGS, LONDON, E.C.



## 40 HIGHEST AWARDS.

**"A NEW DEPARTURE."**

THE growing demand for our preparations in Great Britain and the Colonies has rendered it necessary for us to establish a branch of our American house in London, and we, therefore, have pleasure in announcing that we shall open in the early Autumn a warehouse the exact location of which is not yet fully determined, under the style of

**SEABURY & JOHNSON,**

which will be under the personal charge of an officer of this corporation. By this means we shall be brought into more direct relations with the trade of Great Britain and those firms of the Colonies who draw their supplies from London. We shall carry full stocks of all our products, some of which the trade have been unable to obtain through our late agency, and shall be able to execute with the utmost promptness orders for any of our goods and in any quantities that may be required by the home or export trade.

Heretofore we have been unable to offer a **Complete Line** of our **Antiseptic Specialities**, which have followed the development of Listerism. We now propose to place before our medical friends a

**COMPLETE SURGICAL AND ANTISEPTIC ARMAMENTUM,**

the excellence of which they will thoroughly appreciate.

The manufacture of **Pharmacopœial and Surgical Plasters** in rubber combination, as well as the preparation on a commercial scale of most of the **Antiseptic and Surgical Dressings and Absorbents**, is an industry created by this house. The growing proportions of the demand for this class of products, which has been created by the progress of surgery and medicine, seconded by our own practical efforts, has led a number of manufacturers, unequipped with either the facilities or the pharmaceutical skill for properly producing these goods, to enter the field, and the low prices at which inferior preparations are offered have tempted some purchasers to favour their goods in preference to ours. The difference in price is doubtless a tempting bait to the trader, who may, perhaps, get an extra discount for selling new or unfavourably-known goods, but where a comparison of merits is had by actual use, the results attending low-priced products are unsatisfactory to the Medical Practitioner and the Surgeon.

Where any difficulty is experienced by chemists and druggists in obtaining our goods from the wholesale houses with which they place their orders, we shall have much pleasure in promptly filling their favours, if addressed to us from August 1st (until the complete arrangement of our new warehouse), care of

**Messrs. HAWKES, SOMERVILLE & CO., No. 1 Whittington Avenue, London, E.C.**

Orders will be filled and goods delivered from their warehouses, 15 & 16A Bury Street, St. Mary Axe, E.C.

Respectfully,

**SEABURY & JOHNSON,**

PROPRIETORS

**SEABURY PHARMACAL LABORATORIES,**

**NEW YORK AND LONDON.**

PRICE LISTS FURNISHED ON APPLICATION.



# Products of Seabury Pharmacal Laboratories (SEABURY & JOHNSON)

## Pharmacopœial and Unofficial

### PLASTERS

#### In Rubber Combination.

These goods are put up in the form of "cut plasters," 5×7½ inches, and in yard and five-yard rolls, 7 inches wide, and are furnished in either plain or porous form. They are also furnished spread on kid in three sizes:—

<b>Aconite</b>	<b>Iron</b>
<b>Ammoniacal</b>	<b>Lead</b>
<b>Arnica</b>	<b>Mercurial</b>
<b>Asafoetida</b>	<b>Opium</b>
<b>Belladonna</b>	<b>Pitch, Burg.</b>
<b>Benson's Capcine</b>	<b>Poor Man's</b>
<b>Blister</b>	<b>Roborans</b>
" <b>camph.</b>	<b>Soap</b>
<b>Bryonia</b>	<b>Strengthening</b>
<b>Calendula</b>	<b>Sumach</b>
<b>Calfaciens</b>	<b>Thapsia</b>
<b>Capsicin</b>	<b>Vigo cum merc.</b>
<b>Capsicum</b>	<b>Warming</b>
<b>Galbanum</b>	<b>Witch Hazel</b>
<b>Hemlock</b>	<b>&amp;c., &amp;c.</b>

### SURGEON'S RUBBER ADHESIVE

#### Strong Cotton Cloth.

1-yard and 5-yard rolls, 7 in.	
1 " " " 7 in. Porous.	
1 " " " 4 in. Strips, 10 yard Spools	
1½ " " " "	
2 " " " "	
2½ " " " "	
3 " " " "	
Twilled Linen, yard and 5 yard rolls, 6 in.	
Eng. Moleskin, " " " 6 "	

### MEAD'S ADHESIVE.

#### On Cotton Cloth.

5-yard rolls	12 in.
1 " "	7 "
10 yard spools	1 " "
" " "	13 " "
" " "	2 " "
" " "	23 " "
" " "	3 " "

### EMP. ADHESIVUM (DIACHYLON)

1-yard rolls	8 in.
5-yard rolls	12 "

### BREAST PLASTERS.

Our Breast Plasters are furnished in the following medications and in either 6 or 7 inches diameter:

Belladonna, Lead, Belladonna and Lead, Phytolacca Decandra; Phytolacca Decandra and Belladonna; Phytolacca Decandra and Lead, &c., &c.

### DERMATOLOGICAL PLASTERS.

Acid, Boric	10%
" Carbolic	10%
" Salicylic	10%
Hydonaphthol	10%
" "	20%
Ichthyol	10%
Iodoform	10%
Lead	30%
Mercury, Bichloride	1%
" Red Oxide	20%
Zinc Oxide	10%

Dr. Unna's Formula, Ichth. and Chrys. Acid.  
Dr. Unna's Formula, Ichth., Chrys'n, Sal. Acid and Ox. Zinc, &c., &c.

## SURGEON'S

### ANTISEPTIC ISINGLASS PLASTER

#### APPLIED BY WETTING.

On Fine Pure Silk, yard rolls	7 in.
(Flesh, White, or Black).	
On Tracing Cloth, yard rolls	7 in.
(Flesh, White, or Black).	
On Strong Muslin, yard rolls	8 in.
(Flesh, White, or Black).	
" " " 4-in. Strips, 10 yards	11 in.
" " " 1 " "	6 "
On Canton Flannel, yard rolls	7 ins.
On Goldbeater's Skin	6 "
Surgeon's Transparent	7 "
Arnica	7 "
Arnica and Calendula	7 "
Calendula	7 "
Witch Hazel	7 "
&c., &c.	

### COURT PLASTER.

50 different styles, spread on Silk, Tracing Cloth, Strong Muslin, Kid, Goldbeater's Skin, &c., &c.

### CORN PLASTERS,

#### Thick or Thin.

SLIDE BOXES.—12 Plasters each.

Round or Oval.  
Round or Oval, Arnicated.  
" without holes, for soft corns.

Mead's (Medicated).

GLASS TOP BOXES.—144 Plasters.

Round or Oval.  
Round or Oval, Arnicated.

### BUNION PLASTERS.

#### Thick or Thin.

SLIDE BOXES.—6 Plasters each.

Square, Round, or Oval.  
Square, Round, or Oval, Arnicated.  
Mead's (Medicated).

GLASS TOP BOXES.—72 Plasters.

Square, Round, or Oval.  
Square, Round, or Oval, Arnicated.

### MUSTARD PLASTER.

#### ON CLOTH.

100 Plasters in a Square Decorated Tin Box.

10 " Flat	" "
6 " Round	" "
3 " " "	" "
Half-yard Rolls, 6 in. wide	" "
1 " 6 " "	" "
5 " 12 " "	" "

#### ON PAPER.

100 Plasters in a Square Decorated Tin Box.

10 " Flat	" "
Yard rolls, 6 in. wide	" "
5-yard rolls, 12 in. wide	" "

### HALF-STRENGTH.

#### On Paper only.

10 Plasters in a Flat Decorated Tin Box.

These Plasters are intended to meet the wants of persons of specially sensitive skins, who cannot endure the active irritation of full strength.

### SPICE PLASTER.

Emplastum Aromaticum.

Yard Rolls, 6 in. wide.

### OILED AND RUBBER FABRICS AND PROTECTIVES.

Silk, Muslin, and Paper.

Guttapercha Tissue, Mackintosh Cloth, Bandage Gum, White Rubber Sheeting, Spongio Piline, Esmarch Journiquet, Dental Rubber Dam, &c., &c.

## SURGICAL DRESSINGS.

### ABSORBENT COTTONS,

In ½, 1, 2, 4, 8, and 16 ounce cartons.

Plain Absorbent	10%
Borated	10%
Carbolated (Lister's)	10%
Cor. Sublimate	10%
Eucalyptol	5%
Hydonaphthol	5%
Iodoform	5%
Salicylated	5%
Styptic	5%
&c., &c.	

Any desired strength or medication.

### ANTISEPTIC GAUZES.

In 5-yard Tins, 25, 50, and 100 yard rolls, 1 yard wide.

#### BLEACHED GAUZES—

Plain Absorbent	10%
Borated	10%
Carbolated (Lister's)	10%
Cor. Sublimate	10%
Eucalyptol	5%
Hydonaphthol	5%
Iodoform	5%
Ditto	10%
Salicylic Acid	5%
Thymol	5%

UNBLEACHED GAUZES—Plain, Carbolized, Cor. Sublimate, &c., &c.

### ANTISEPTIC LINTS, WOOLS, JUTE, OAKUM, &c., and Miscellaneous Dressings.

LINT—Absorbent; Hospital; Borated, 10%; Hydonaphthol, 5%, &c., &c.; Flax.  
JUTE—Plain, Tarred, Bleached (Absorbent), Borated, 10%; Carbolized, 10%, &c., &c.  
OAKUM PEAT—Coarse and Fine.  
WOOL—Cotton, Bleached and Unbleached; Lamb's, Coarse and Fine; Paper; Wood.

### ROLLER BANDAGES.

Strong Bandage Cotton; English Open, White and Grey; Red, White, and Antiseptic Flannel; Strong Gauze; Linen; Linen Finish; Plaster Paris; Starch; Rubber; Rubber, Porous; Self-fastening; Elastic Web, &c., &c.

### ANTISEPTIC LIGATURES AND SUTURES, Catgut and Silk.

Carbolized (Lister's), Chromic, Cor. Sublimate, Hydonaphthol, Oil Juniper, &c. We also furnish Surgeon's Sewing Silk, Silver Suture Wire, Kangaroo Tendons, Silk Worm Gut, Surgical Sponges, Bone and Rubber Drainage Tubes, &c., &c.

### MISCELLANEOUS.

FOILET SOAPS—Acid Boric, 5%; Acid Salicylic, 5%; Hydonaphthol, 1%; Ditto, 5%; Sulphur, 7½%; Assorted.

ANTISEPTIC TABLETS—Corros. Sublimate; Hydonaphthol.

SULPHUR CANDLES—1 lb. Round Tin Cans.

MUSIC MENDERS—1 yard long and 6 in. wide.

EAR BLISTERS—Right or Left.

DENTAL PLASTERS—Darby's Dental Capsicum; Ditto, Toothache.

DR. PENNY'S Adjustable Elastic Adhesive Strips.

PASTILLES (Fumigating)—Hydonaphthol.

SPRINKLERS—Hard Rubber, Nos. 1 and 2.

ACCIDENT CASES.

BLISTERING CERATES.

Hydonaphthol and its preparations.

Johnstone's Improved Ahl's Adaptable Porous Felt Splints, &c., &c.



# C. F. Boehringer & Söhne Mannheim

Germany.

Established in 1859.

Branch-houses: 49, Cedar Street, New York.

„ „ 22, Via Monte Napoleone, Milan.

— Largest Makers in the world of —

## Sulphate of Quinine.

The well-known B. & S. brand is

unequalled in appearance and lightness

unsurpassed in purity

C. F. B. & S. have frequently supplied

the Governments of Austria	
„ „ „ Great Britain	
„ „ „ Greece	
„ „ „ Holland	
„ „ „ Italy	
„ „ „ Roumania	
„ „ „ Russia	
„ „ „ Turkey, etc.	

## All other Salts of Quinine.

Cinchonidine lightest

Cinchonine lightest

Quinidine

Quinoidine



# C. F. Boehringer & Söhne Mannheim

Germany.

Established in 1859.

Branch-houses: 49, Cedar Street, New York.

„ „ 22, Via Monte Napoleone, Milan.

## Cocaine Hydrochlorate

in beautiful, large crystals, pure and reliable, will stand every test.

Acid Gallic	Rousseine
„ Chrysophanic	Morphine
„ Tannic	Pelletierine
Aconitine	Pepsin
Antifebrine	Physostigmine
Arbutine	Pilocarpine
Atropine	Podophylline
Berberine	Salicine
Brucine	Santonine
Caffeine	Sparteine
Carbolic Acid Crystals	Strophantus Tincture
Codeine	Strophantine
Collodion	Styechnine
Ergotine, perfectly soluble in water	Sulfonal
Eserine	Terpine Hydrate
Ether	Terpinole
Glycerine	Thalline
Homatropine	Veratrine
Hyoscyamine	

and other Pharmaceutical Chemicals.

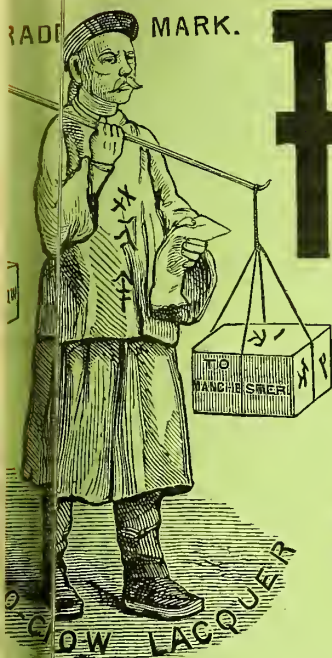
A large stock of selected Cinchona Bark, Coca Leaves, Ergot of Rye, Opium, Wormseed, and American Drugs always on hand.

We are prepared to supply Fluid Extracts, P. A. St., also other Extracts according to the requirements of the different Pharmacopoeas.



# MACPHERSON'S

TRADE MARK.



# FOO CHOW ENAMEL,

(PATENTED.)

(ALL COLOURS)

## DRIES HARD IN FIVE MINUTES,

IRON, WOOD, STONE, OR CEMENT, NO MATTER HOW OILY OR GREASY.

**REMEDALS.**—London Inventions, 1885. Liverpool International, 1886. Antwerp International, 1885.

THIS ENAMEL is cleanly and pleasant to use, is **DEVOID** of **OFFENSIVE SMELL** dries in five minutes, hardens rapidly, and gets **harder with time**, has a **brilliant permanent gloss**, **does not chip**, **does not skin in the tins**, and is impervious to **stains** when once dry. It can be used **over any other paint**, or on **Tar**, and in fact on **any dry surface**, no matter how **oily or greasy**. There is not a use to which paint is put **but Foo-Chow Enamel cannot more effectually supply**. As a **floor stain and varnish**, largely used in China, where all floors are free from carpets in the summer time. It is **made in all Art Colours**, and **each colour is intermixable**. For Ladies' work for house decoration, for renewing faded furniture, for *bric-a-brac* generally there is nothing like it. For **Baths** it is made in **White, Aqua Marine, and Cerulean Blue**. There is nothing made **equal to Foo-Chow Enamel for re-enamelling baths in Situ**.

### THE FOLLOWING ARE EXTRACTS FROM OUR LIST OF TINTS:—

13 Cinnamon	25 Hazel or Fox	38 Pearl Grey	50 Sage Green
14 Citron	26 Ivory	39 Pink	51 Sapphire Blue
15 Clematis	27 Lava Grey	40 Plum	52 Scarlet
16 Daffodil	28 Lavender	41 Poppy Red	53 Sea Green
17 Damask Rose	29 Lilac	42 Post Office Red	54 Seaweed Green
18 Dove	30 Malachite Green	43 Primrose	55 Sky Green
19 Duck Egg Green	31 Myrtle	44 Puce	56 Sunflower
20 Ecru	32 Oak	45 Purple	57 Terra Cotta
21 Electric Blue	33 Old Gold	46 Robin Red	58 Turquoise
22 Elephant Grey	34 Olive	47 Rosé Pink	59 Violet
23 Emerald	35 Parrot Green	48 Russet	60 Wedgewood Blue
24 Fawn	36 Peach	49 Salmon	61 White
	37 Peacock Blue		

Made up in 6d., 1/-, and 2/6 Tins, and sent post free for 9d., 1/3, and 2/10½.

SOME SHOW CARDS AND CIRCULARS ON APPLICATION.

**MADE IN ALL ART SHADES.**

**AGENTS WANTED EVERYWHERE.**



## Newspaper Notices of Foo-Chow Enamel at Manchester Exhibition.—Continued.

### "INDUSTRIES."—November 4th, 1887.

Messrs. Donald Macpherson & Co., Knott Mill, Manchester, exhibit their speciality, Foo-Chow Enamel, in a somewhat novel manner. They have erected a small kiosk, in which they show the enamel on wood, iron, stone, brick, plaster of Paris, Lincrusta-Walton, pottery ware, the whole forming an attractive exhibit. This enamel dries in five minutes, and its application to common bricks is so effective, the resemblance to glazed bricks being so strong as to be scarcely discernable.

### "PLUMBER AND DECORATOR" (Journal of Gas and Sanitary Engineering).—June 1, 1887.

Messrs. Donald Macpherson and Co., Knott Mill, Manchester, have a most striking exhibit showing the various applications of the Foo-Chow Enamels. This enamel, which is manufactured from a Chinese Pigment, has the brilliancy of lacquer, besides possessing a very valuable property of not running. It can be laid on in different colours, as one colour will not run on to the other, and when it is dashed in various colours on a board it produces a highly decorative and artistic effect resembling very strongly an arrangement of Whistler's or a landscape of Turner's. It dries hard in five minutes, and can be laid on to almost any material, however greasy it may be. The enamel does not require any skilled labour to apply, and can be laid on by anyone, however untrained, but nevertheless has all the effect of expensively produced japanned work on which the most costly labour has been bestowed. When applied to brickwork this enamel gives a vitreous appearance to the bricks, scarcely being distinguishable from glazed brickwork. One great advantage it possesses is its suitability for hospital walls and corridors, and all places exposed to disease germs; as it is a non-absorbent, dirt and contagion will not cling to it, and being smooth and lustrous it can be wiped and cleaned like glass. We should think it would be found of great use for decorating the interiors of the roofs of railway carriages, and it would also be very suitable for stables and rooms of that kind. In domestic decoration a great field is opened out before it. We imagine that it could be successfully introduced into wall-decoration and make very striking panels. Its resemblance to japanned or lacquer work suggests at once its applicability to enamelling baths, bicycles, mantelpieces, wood carvings, and room floor borders. Messrs. Macpherson deserve great credit for introducing this Chinese enamel into the English market, and presenting the public with a novelty much wanted. Already, we understand, the enamel has been taken up with activity, and its use is growing enormously. Several of the fountains at the Exhibition are coated with this paint, which gives them a very handsome and effective appearance. The Chinese Pavilion is also painted with it.

### "THE MANUFACTURER."—June, 1887.

Messrs. DONALD MACPHERSON & CO., Knott Mill, Manchester, at the Manchester Exhibition.

No. 761. This firm make a very effective display of their enamel paints. In the grounds there is a large Chinese pavilion, and the whole of this, which was designed and erected by Mr. James D'Oyley, architect, of Southport, has been painted with Foo-Chow Enamel, including the staining of the bar fronts in walnut. The appearance is very striking, and it will afford a good test of the durability of their Foo-Chow Enamels. In the Exhibition buildings they have an ornamental and artistic structure covered with these enamels, and on this are several large plaster vases and other articles painted with the enamel. The whole presents a capital appearance, and shows up the brilliancy of the colours. These enamels can be applied to iron, stone, slate, glass, leather, upon which they dry hard in five minutes. They can also be applied to existing brickwork, causing that work to resemble glazed bricks. Its surface becomes so hard that it can only be scratched with an edged tool. They are of unmistakable hardness when dry, and for baths, bicycles, carvings, roofs, and iron, it is not to be wondered at that they are in considerable demand. The hardness of the Chinese and Japanese enamels has long been a matter of envy to the Eastern world, but we now seem to be able to accomplish in this direction what has been done by the Orientals for centuries.

Made up in 6d., 1s., and 2s. 6d. tins, and sent post free for 9d., 1s. 3d., 2s. 10d., 12s. per Gallon, in 1, 2, 4, 6, and 10 Gallon Drums.

AGENTS WANTED EVERYWHERE. HANDSOME SHOW CARDS AND CIRCULARS ON APPLICATION. ALL ART SHADES MADE.

SOLE MANUFACTURERS:

**DONALD MACPHERSON & CO.,**  
**Manchester Paint and Colour Works,**  
**KNOTT MILL, MANCHESTER**

LONDON: Suffolk House, Cannon Street, E.C.

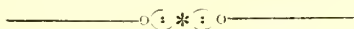
MELBOURNE: Planet Chambers, Collins Street East.

Please Address all Correspondence to the Works, KNOTT MILL, Manchester.



# J. RAPHAEL & CO.,

WHOLESALE MANUFACTURING OPTICIANS.



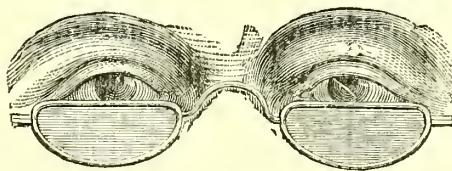
CHEAPEST HOUSE IN THE TRADE FOR

Spectacles, Field, Opera, & Marine Glasses.

TRADE



MARK.



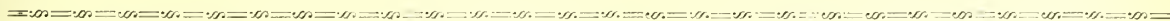
Telegraphic Address:—

"EL-PRECIO, LONDON."



SPECIAL attention paid to repairs, which are returned the same day as received. OCULISTS' PRESCRIPTIONS worked out with greatest accuracy, Frames of every possible size and shape made upon the premises by our own experienced workmen.

SAMPLES SENT FOR INSPECTION AND APPROVAL UPON RECEIPT OF TRADE CARD.



SOLE MANUFACTURERS OF

## RAPHAEL'S PATENT "OPSIOMETER,"

The only Accurate Instrument for Testing the Sight.



13, OXFORD STREET, LONDON, W.

[P.T.O.]



## DEPARTMENTS.

FIELD AND MARINE GLASSES, in Case ... .. from 6/6 each

OPERA GLASSES, in Case ... .. „ 36/- per doz.

In immense Varieties, comprising all the Newest Patterns.

TELESCOPES, Pocket and Tourist Achromatic ... .. from 4/- each

„ Marine Achromatic ... .. „ 8/6 „

„ Astronomical, Mounted on Brass Tripod ... .. „ 60/- „

MATHEMATICAL INSTRUMENTS in Great Variety.

BAROMETERS (Aneroid), in Oak Frames ... .. from 7/- „

„ (Aneroid), in Nickel or Brass ... .. „ 3/- „

„ (Fitzroy) ... .. „ 8/3 „

„ (Wheel) ... .. „ 12/6 „

„ (Pediment) ... .. „ 12/6 „

THERMOMETERS of Every Description ... .. „ 3/- per doz.

MICROSCOPES of Every Description.

READING GLASSES, Nickel Mounts, Best White Glasses.

„ „ Brass Mounts „ „

„ „ Horn Mounts, „ „

SPECTACLES, Iron, Assorted Sights, Convex only ... .. from 10/- per gross

„ Steel, Assorted Sights, Convex and Concave ... .. „ 30/- „

„ Nickel, in Endless Patterns ... .. „ 6/- per doz.

„ Silver, Engraved and Plain ... .. „ 40/- „

„ Gold, Fasceted and Plain ... .. „ 9/- each



DEPARTMENTS—*Continued.*

**FOLDERS**, with Cork, Steel, and other Placquets, in Steel, Nickel, Silver, Gold, Horn, Tortoiseshell.

**SPECTACLE CASES**, in Wood, Paper, Leather, Papier Maché, etc., etc.

**FOLDER CASES**, in Wood, Paper, Leather, Papier Maché, etc., etc.

**EYE GLASS GUARDS**, in Gold, Silver, Gilt, etc., etc.

**LENSES**, Cylindrical, Spherical, Prisms, Tinted, Periscopic, Convex, Concave, and Plano.

**PEBBLES**. Periscopic, Convex, and Concave.

**PRESCRIPTIONS**. The greatest care is exercised in working out Oculist's prescriptions ; which are done on the premises by our own experienced workmen.

**REPAIRS**. We pay special attention to all repairs ; which are returned, where possible, same day as received.

**SUNDRIES**. Springs, Sides, Screws, and every requisite for jobbing.

---

It would be impossible to enumerate every article we keep in stock. We should however, be glad to forward every possible information to Chemists who are desirous of adding this most lucrative branch to their business ; or we should be willing to forward samples for inspection and approval ; a system far more satisfactory than ordering from a catalogue, which is often very misleading and disappointing.

All communications to be addressed to

**J. RAPHAEL & CO.,**

**Wholesale Manufacturing Opticians,**

**13, OXFORD STREET, LONDON W.**



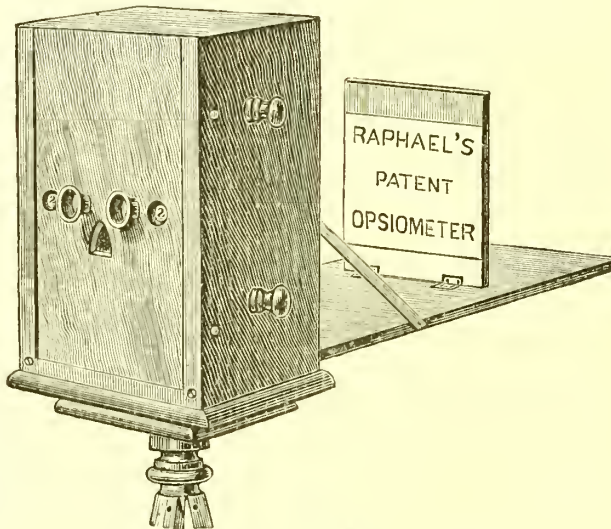
# RAPHAEL'S PATENT "OPSIOMETER."

(The only reliable Instrument for Accurately Testing the Sight.)

## Press Opinions.

### THE CHEMIST & DRUGGIST says—

The apparatus illustrated below has been devised by Messrs. J. RAPHAEL & Co., 13, Oxford Street, with a view of providing a ready means for ascertaining the exact sight required by any spectacle customer. The instrument is similar in appearance to the revolving stereoscope, and its principle will be readily understood. By means of the knobs, lenses of varying powers are brought level with the eye-holes, and the customer reads through them a piece of printed matter fixed at a proper focal distance. He soon ascertains which is the power which most perfectly suits his sight, and this done, all that remains is to satisfy him in regard to style and price. The instrument contains 36 pairs of lenses in all, extending from 5 to 48 convex, and from 0000 to 12 concave. Any sight outside these ranges is one of such a diseased nature that it should be treated specially by an oculist. The occasional cases of odd eyesights, that is to say, of eyes which require lenses of different power for each, can be met by this instrument,



PRICE 45/- EACH, NET.

### THE HOROLOGICAL JOURNAL says—

Some years ago I invested in a case of trial lenses, such as are probably familiar to most of your readers, and a frame in which to insert any one pair for suiting a customer. This was certainly preferable to handling the stock so continually, and presented the advantage of enabling one to ascertain the number required, if one happened to be out of glasses of that particular focus. But Messrs. RAPHAEL'S OPSIOMETER is a very much more complete appliance, and is but one-third of the price I paid for my trial case.

It does occasionally happen that a person who desires to be suited with glasses has odd eyes, and such a one, under the usual conditions of trying a pair of glasses, can, of course, never be satisfied. With the Opsiometer a different number may readily be presented to each eye to meet a case of odd vision, and, indeed, no pains seem to have been spared to provide exactly what is required by the optician. I enclose a photograph of the Opsiometer, but its nature will, I think, be readily understood from the description.

RICHARD WOOD.

### THE JEWELLER & METAL WORKER says—

The writer was unconscious that his eyes were of different strength until he looked through this instrument, and doubtless many others will discover, by the aid of the Opsiometer, that they suffer in the same way. Apart from this, the use of the instrument will save considerable labour and annoyance. A customer will not be able to quit a shop and say that he cannot be suited, and the stocks will not have to endure the handling and consequent cleaning up which is now the case. The framework is elegant in construction, and the rear part shuts up like a box, so that the instrument will not occupy much space on the counter, while at the same time it is both useful and attractive. The manufacturers are Messrs. J. RAPHAEL & Co., 13, Oxford Street, London W., and as the instrument can be supplied at a moderate cost there is no doubt that many shopkeepers will avail themselves of the opportunity afforded them of conducting their optical business with more pleasure and greater celerity.

THE "OPSIOMETER" consists of a Polished Mahogany Case, about 18 inches high, 14 inches wide, and 14 inches deep; within the case two rollers are mounted vertically under each other, one above and one below the eye holes. There are two bands which go round the rollers. These bands contain at short distances lenses of every number from 5 to 48 convex, and 0000 to 12 concave. At the sides of the case are knobs for actuating the rollers and bringing any pair of lenses coincident with the eye-holes; the number of whatever lenses are in position are indicated by figures which are seen through holes at each side of the front of the case. At the back of the case, at the usual focus for testing, is a stand with the matter to be deciphered by the person whose sight is being tested. The rollers are turned until the patient can decipher the matter on the stand. When this is accomplished, you look at the figures at each side of the eye-holes, which indicate the number of the lenses through which your patient has been looking, and these numbers correspond with the number of the spectacles required. A person with odd eyes can be tested just as easily, for the bands work independently, thereby enabling different numbered lenses to be brought to each eye. The many advantages of this instrument must be at once apparent to any one who has had any experience in suiting customers with spectacles:—

FIRSTLY.—Its construction is so simple that it can be worked by the most inexperienced, and cannot get out of order.

SECONDLY.—Each Lens having been neutralised before being fixed in the Opsiometer, it may be relied upon for being perfectly accurate.

THIRDLY.—The immense saving of time in suiting patients.

FOURTHLY.—The cost is less than one-third the price of a moderate Trial Case.

FIFTHLY.—It is very compact: is an ornament to any shop, and is indispensable to any one selling Spectacles.

Sole Manufacturers—

J. RAPHAEL & Co., Wholesale Manufacturing Opticians,  
13 OXFORD STREET, LONDON, W.

## Press Opinions.

as the right and left rollers are independent the one of the other. By the side of each eye-hole is another aperture where is shown the number of the lens corresponding with the one which has been locked through.

### THE WATCHMAKER, JEWELLER, AND SILVERSMITH says—

The OPSIOMETER is a great advance on any of the primitive and troublesome arrangements for suiting customers heretofore employed by retail opticians and others; while affording a speedy and certain method of ascertaining all possible focal requirements, its use obviates the necessity for overhauling and soiling stocks, which is one of the chief worries of the retail optician's business. Its advantages are manifold and obvious: being at once portable and compact, it forms an attractive addition to the counter; and as its price brings it within the reach of all, it is sure to be in strong demand by all who deal in optical goods.



With Compliments.

## FOR THE TALE



IN this age of "hurry and scurry," we can scarcely be surprised at any method adopted by busy men to save time and money.

A prominent City Chemist—a large advertiser by the way—who values his time at so much a second, has a cat in his office of which he is very fond. One day last week, while holding the door open for the cat to go out, it struck him that half of the time was lost in waiting for the tail to escape; he then got down to figures, with the following result: He opened the door at least ten times a day to let the cat in or out, it took him one minute each time, and with three hundred working days in each year, he found he had been standing with that door knob in his hand for fifty hours each year! **FIVE WHOLE WORKING DAYS!!** *and nothing to show for it !!!*

He immediately ordered his man Friday to cut off the cat's tail, and he now opens the door and slams it in a jiffy, without danger of hurting the cat, and very little loss of time to himself.

This is only one instance. Another instance of his wisdom is that when he requires any Printing, he does not rush all over the town, neither does he send his clerks from John O'Groats to Jericho getting estimates. Experience has taught him that it is only necessary to send his orders to **BOWERS BROTHERS**, and that is the end of it; he knows perfectly well that they will turn his work out promptly, neatly, and reasonably.

This man is wise—Time is money.

*Moral:* Chop off the cat's tail, and get your printing done at **BOWERS BROTHERS**, 89, Blackfriars Road, London, S.E.

Perhaps, you, gentle reader, think it is time we chopped off this tale. All right! Remember one thing—when you want anything in the line of printing you can save time and money by coming to us.

To Point

\*\*\*\*\*

A Moral

\*\*\*\*\*

And Adorn

\*\*\*\*\*

A Tale.

\*\*\*\*\*



**BOWERS BROTHERS,**

PIONEERS OF UNIQUE  
PRINTING,

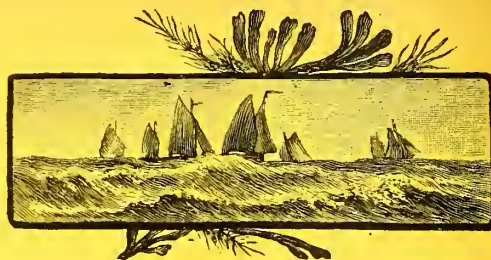
**89, Blackfriars Road,**

And John Street West,

London, S.E.

Correspondence invited. Write for Estimates before ordering elsewhere.





To all whom it may Concern.



**ESSRS. BOWERS BROTHERS** beg to draw  
the attention of Chemists to the very exceptional  
facilities they possess for the production of superior  
Letterpress Printing, and invite business communications from  
the Profession.

89, Blackfriars Road, S.E.

—Works: John Street West.



It will Pay You to  
send for Estimates.



# CARLSBAD NATURAL MINERAL WATERS,

“SPRUDEL,” “SCHLOSSBRUNNEN,” “MUHLBRUNNEN,”

Obtained from the celebrated Alkaline and Saline Springs and famous health resort of CARLSBAD, Bohemia.

These Waters are now imported in bottles and may be used in the treatment of all cases in which the Carlsbad cure is indicated when patients are unable to visit the Spa. The Carlsbad cure is recommended in CHRONIC GASTRIC CATARRH, HYPERCÆMIA OF THE LIVER, GALLSTONES, CHRONIC CONSTIPATION, DIABETES, RENAL CALCULI, GOUT, and diseases of the spleen arising from residence in the tropics or malarious districts.

## NATURAL CARLSBAD SPRUDEL SALT

contains all the essential ingredients of the CARLSBAD “SPRUDEL” MINERAL WATER, from which it is obtained by evaporation. It is alkaline, and readily soluble either in warm or cold water. In small and frequent doses it is an efficient diuretic, but as an aperient it should be taken *before breakfast*, in doses of from 1 to 2 teaspoonfuls, dissolved in water preferably warm. To increase the aperient action of the Natural Carlsbad Mineral Water, a teaspoonful of the Salt, previously dissolved in a little hot water, should be added.

FAC-SIMILE of BOTTLE LABELS and TRADE MARK as under:

THE NATURAL  
**Karlsbad Sprudel-Salt**  
 obtained from the Sprudel-water by evaporation is an alkaline, easily solvent, diuretic remedy, and taken in larger doses acts as an aperient. It may be taken dissolved in common water, or as an addition increasing the effect of the Carlsbad Mineral Waters in doses from 5 to 10 grammes.



THE NATURAL  
**Karlsbad Sprudel-Salt**  
 is only sold in glass bottles containing 100 and 200 grammes, bearing the TradeMark on the label; and on the strip Trade Mark with the Signature of  
**KARLSBADER**  
**Mineralwasser-**  
**Versendung**  
*Liebel Schödländer*  
 KARLSBAD (Austria)

**PRESERVATION OF THE SALT.**—The Bottles must be kept well corked to prevent the Salt from disintegration, and the CRYSTALLIZED SALT commences to deliquesce at a temperature of about 88° Fahr., care must be taken to keep it in a dry cool place; but **FOR EXPORT** the Powder is recommended because it does not deliquesce, and therefore undergoes no change. It is taken in the same doses, and has the same effect as the Crystallised Sprudel Salt.

*Sole Importers for Great Britain and the Colonies,*

# INGRAM & ROYLE, London, Liverpool & Bristol,

Whose names are on the Labels of all the Bottles of Waters and Salts, without which none are genuine.



Highest Award at the International Medical Exhibition, London, 1881.



The  
"Tasteless Aperient"

# HUNGARIAN NATURAL MINERAL WATER.

## USES.

- |  |   |
|--|---|
| <p>1. As a highly efficient <b>ALTERATIVE</b>, correcting disorders of the <b>BLOOD</b>, and the <b>MOST SUITABLE APERIENT</b> KNOWN FOR PROLONGED USE.</p> <hr/> <p>2. Against <b>OBSTINATE CONSTIPATION</b>.</p> <hr/> <p>3. As a corrector of <b>INDIGESTION</b>.</p> <hr/> <p>4. In cases of <b>CONGESTION AND INFLAMMATION OF THE BOWELS</b>.</p> <hr/> <p>5. As a certain cure in <b>ALL BILIOUS ATTACKS</b>.</p> <hr/> <p>6. As a preventative of <b>GRAVEL AND STONE IN THE BLADDER, GALLSTONES, &amp;c.</b></p> | <p>7. As a <b>LAXATIVE</b> in the early stages of <b>FEVER</b>, and a preventative of <b>FEBRILE SYMPTOMS</b>.</p> <hr/> <p>8. In all <b>DISORDERS</b> of the <b>LIVER</b>.</p> <hr/> <p>9. In cases of <b>INACTIVE LIVER, LACK OF ENERGY, &amp;c. &amp;c.</b></p> <hr/> <p>10. As a remedy for <b>HÆMORRHOIDS, RHEUMATISM, LUMBAGO, &amp;c.</b></p> <hr/> <p>11. For the relief and prevention of <b>OBESITY, GOUT, and INTERNAL CONGESTIONS</b>.</p> <hr/> <p>12. In many <b>FEMALE DISORDERS</b>, during <b>PREGNANCY</b>, and for <b>NURSERY USE</b>.</p> |
|--|---|

COMPAGNIE FERMIÈRE DE L'ÉTABLISSEMENT THERMAL DE

(State

# VICHY

Springs).

**CELESTINS.**—For Diseases of the Kidneys, Gout, Gravel, Rheumatism, Diabetes, &c.

**GRANDE-GRILLE.**—For Diseases of the Liver and Biliary Organs, &c.

**HÔPITAL.**—For Stomach complaints. **HAUTERIVE**—An excellent **TABLE WATER**.

**Annual Sales are more than Six Million Bottles.**

*Sole English Branch*—**INGRAM & ROYLE,**

LONDON:  
52, FARRINGTON ST., E.C.

LIVERPOOL:  
FINNEY LANE.

BRISTOL:  
BATH BRIDGE.

**Sole Importers for the United Kingdom of  
Carlsbad Waters and Salts.**

*Full Descriptive Pamphlet and Price List on Application.*



Supplement to the "CHEMIST AND DRUGGIST," July, 28<sup>th</sup> 1888.

Telegrams—"EXTRACT, NOTTINGHAM."

Established 1850.

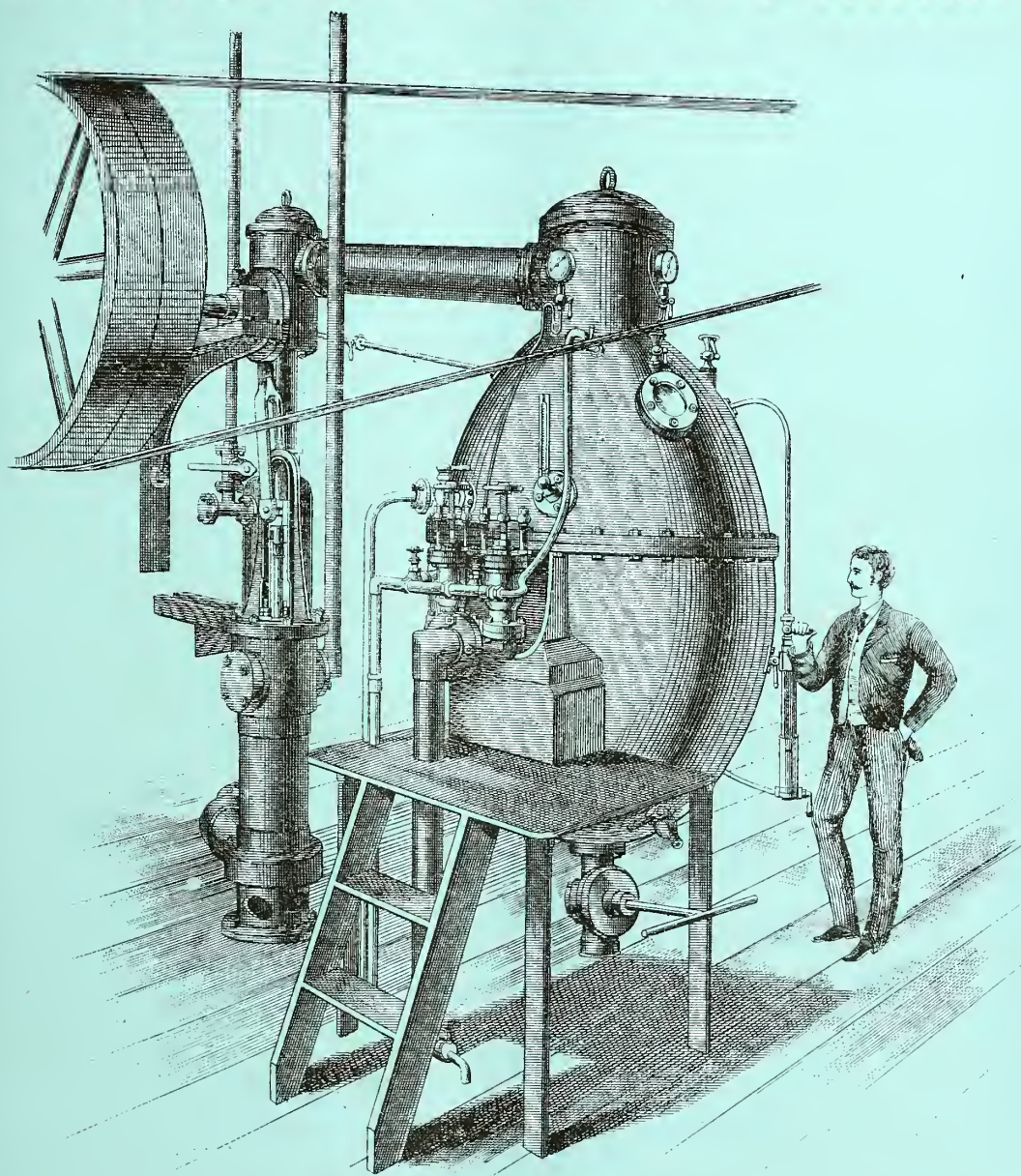
# NEWBALL AND MASON,

Manufacturing Chemists and Botanic Druggists,

PARK ROW, NOTTINGHAM,

SOLE INVENTORS OF EXTRACTS FOR MAKING

## NON-INTOXICATING BEVERAGES.



OUR EXTRACTS ARE PREPARED IN VACUO, BY WHICH PROCESS THE AROMA AND FLAVOUR ARE PRESERVED TO THE FULLEST EXTENT.

BEWARE OF IMITATIONS.



**MASON'S ORIGINAL**

**EXTRACT <sup>OR</sup> ESSENCE OF HERBS**

(Registered under Trade Marks Act, Class 3, No. 20370, Sec. 15, 1879),

COMPOSED of YARROW, DANDELION, COMFREY, and HOREHOUND,

FOR THE IMMEDIATE PRODUCTION OF

**BOTANIC BEER**

A NON-INTOXICATING BEVERAGE

Full of Body and Flavour, with a Creamy Head like Bottled Ale, the most perfect substitute for Alcoholic Drinks ever discovered, for either Summer or Winter.

SOLD IN BOTTLES, at 6d., 1s., 2s., and 5s. each, with Directions.

**IMPORTANT NOTICE.**

**ENLARGEMENT OF SIZE.**

In order to supply the enormous demand for our Extracts, we have increased our plant with costly scientific apparatus and machinery for the manufacture of this superior article, whereby all the aroma and health-giving properties of the HERBS are fully retained; we have also decided to increase the size of the SIXPENNY Bottle.

BEWARE of mean and fraudulent imitations.

BEWARE of cheap foreign produce.

MASON'S is the original EXTRACT.

MASON'S is a special compound from Herbs.

**NO OTHER EXTRACT MAKES BEER LIKE IT.**

ALSO MANUFACTURERS OF

**MASON'S** Ginger Ale Extract, Ginger Extract, Hop Extract, Foamine, Lemonine, Horehoundine, & Wine Essences

SOLE INVENTORS AND MANUFACTURERS:

**NEWBALL & MASON, Manufacturing Chemists, Park Row, Nottingham, England.**

Sold in Bottles, 6d., 1s., 2s., and 5s. each. Prices, Circulars, Show Cards, &c., on application.

Our Extracts are not affected by Climate or Weather.

WHOLESALE AGENTS.—LONDON—Sanger & Sons, Lynch & Co., Barclay & Sons, Edwards & Sons, Newberry & Sons, Hovenden & Son, Sutton & Co. LIVERPOOL—Evans, Sons & Co., John Thompson.

**COLONIAL AGENTS WANTED.**



TRADE MARK  
"MANDRAKE."  
"Non est vivere, sed valere vita."



**BARRETT'S  
MANDRAKE  
EMBROCATION.**

*Full directions printed on the case containing this bottle.*  
For Broken Chilblains or Open Wounds the Embrocation is too drastic and painful.  
**CURES HEAD-ACHE FROM ANY CAUSE INSTANTLY.**  
*See directions.*

PREPARED ONLY BY  
**JOSHUA BARRETT,**  
21, Beresford Road, Highbury New Park, Highbury  
LONDON, N.

**Barrett's Mandrake Embrocation**  
SPECIALTY FOR SPRAINS, BRUISES, OVERSTRAINING  
OF THE MUSCLES, CRAMP, RHEUMATISM, SCIATICA,  
LUMBAGO, GOUT, NEURALGIA, EAR-ACHE, &c.

At a bazaar, recently held in Morley Hall, Hackney, opened by R.H. P. Barrett, the proprietor cured instantly over twenty persons suffering with headache.

**Cures Headache**  
from  
whatever  
cause

By rubbing a few drops only on the Forehead.  
For Head-ache—Draw the hand slowly  
but firmly backwards and forwards a few  
times only, over parts affected, and sniff  
well at the bottle.

"ONE of the greatest novelties in this age of wonderment has just come under our notice. Only a few days since two or three of the leading London daily papers called attention to a free exhibition to all interested, of a collection of half-a-ton of mandrake, on view at the proprietary offices of Barrett's Mandrake Embrocation, 21, Beresford-road, Highbury New Park, London, N. The specimens were said to be the finest ever exhibited, and, we believe, such a quantity of this wild and poisonous plant has never before been collected at one time. The roots resemble, in form, the human being, from whence they derive their name. The qualities of this herb we do not profess to know. The public have been asked to believe that this embrocation will cure head-ache, from whatever cause, instantly. We have had ocular proof of this, in addition to which, we find that the proprietor cured over 20 persons instantly at a bazaar, held a few weeks since, at the Morley Hall, Hackney (opened by H.R.H. Princess Christian). Joshua Barrett, the sole proprietor of this liniment, is not unknown to the London public. In connection with the sad and awful loss of the vessel the Princess Alice, on the memorable 3rd of September, 1878, he distinguished himself in many ways. J.B. was also chosen chairman of a large meeting held in the Memorial Hall, Farringdon-street, of the survivors and friends, when he was given the honorable task of presenting to Lord Beaconsfield, then Prime Minister of England, and a few weeks later to the new Premier, Mr. Gladstone, a petition praying for an ecclesiastical preferment for a reverend gentleman who had at the cost of health and the sacrifice of money, made himself dear to the sufferers by his depth of Christian sympathy. J.B. is well-known in the temperance world; he has founded a Band of Hope which, we understand, is to-day the largest Band of Hope in connection with the Presbyterian Church in London. It is now nearly five years since J.B. commenced to make up these ingredients. For four years the proprietor has been giving away this medicine, which is a combination of twelve herbs and drugs, and so valuable did the Embrocation prove for bruises, sprains, rheumatism, neuralgia, &c., that the demand for it began to be serious. Applications by letter coming from various parts of the country, &c., which compelled the proprietor, in self-defence, to place it upon the market, but not until he added another ingredient, which has given to the public a perfect embrocation, with the addition of instant cure for headache, a malady that never before had known a perfectly harmless and instant cure, and which no doubt will prove a boon to society and a source of remuneration to the proprietor, which he richly deserves."

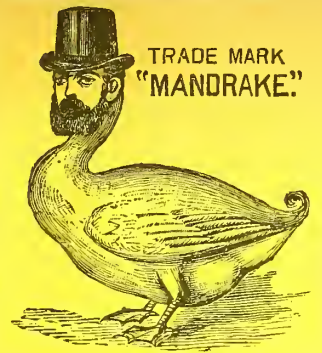
**DIRECTIONS  
FOR USING  
BARRETT'S  
Mandrake Embrocation.**

For Sprains, Bruises, Cramp, Overstraining of the Muscles, &c.—Rub the Embrocation well in frequently with the hand; at night, cover the part affected with flannel soaked in Embrocation; do not bandage tightly.  
For Rheumatism, Sciatica, Lumbago, Gout or Neuralgia.—Treat as above, except where the patient is too tender to be rubbed, then use the Embrocation with a feather or camel's-hair brush.  
For Ear-ache.—Take a piece of cotton wool, twist it into the shape of a plug, damp it only with the Embrocation, and put it well into the ear, and rub the base of the ear also with the liniment.  
For Chilblains.—Place a few drops in the palm of the hand, and rub the blisters together as in washing them, not fretting between the fingers.  
For Broken Chilblains or Open Wounds the Embrocation is too drastic and painful.  
To prevent taking Cold from wet Feet.—Bare the feet, rub them briskly with a rough towel, and apply the Embrocation freely to the soles of the feet and between the toes. If the dampness is affected the throat, put the Embrocation on a small piece of flannel and bandage the throat at bed-time.  
To Cyclists, for Stiff Joints, Rough over-riding or accident.—Rub the Embrocation well into parts affected; the effect is marvellous.  
Barrett's Mandrake Embrocation can be used upon the head or face without injury to the hair—its tendency being to strengthen the hair.  
B. M. E. cures Head-ache instantly.

Always Shake the Bottle well.  
Prepared only by  
**JOSHUA BARRETT,**  
21, Beresford Road, Highbury New Park  
HIGHBURY, LONDON, N.

**CURES HEAD-ACHE**  
from  
whatever  
cause  
**INSTANTLY,**

by rubbing a few drops only on the Forehead.



"Non est vivere, sed valere vita."

**BARRETT'S  
Mandrake  
Embrocation**

SPECIALITY FOR  
SPRAINS, BRUISES,  
OVERSTRAINING OF  
THE MUSCLES, CRAMP,  
RHEUMATISM,  
SCIATICA, LUMBAGO  
GOUT, NEURALGIA  
EAR-ACHE, &c.  
Cures Head-ache instantly.

Price 1/1½. Postage 3d.  
SOLE PROPRIETOR,  
**JOSHUA BARRETT,**  
21, BERESFORD ROAD,  
HIGHBURY NEW PARK, LONDON, N.,  
by whom only it is prepared.  
Full instructions with each Bottle.

**CURES HEAD-ACHE**  
from  
whatever  
cause  
**INSTANTLY,**

by rubbing a few drops only on the Forehead.



# Special Note to Chemists.



GENTLEMEN,

I shall be glad to send you a quantity of this Circular gratis, printed only on one side as over for the Counter, and packing purposes, on receipt of Post Card, addressed,

TO THE PROPRIETARY OFFICES OF

Barrett's ♦ Mandrake ♦ Embrocation,

21, BERESFORD ROAD,

HIGHBURY NEW PARK, Highbury,

LONDON, N. ENGLAND.

The same will be enclosed with goods ordered from any of my City Agents.

The Proprietor respectfully asks ALL CHEMISTS to be good enough to have always on hand, AT LEAST one bottle of his MARVELLOUS HEAD-ACHE CURE. Price 9/6 per dozen. Ladies complain that they have to wait and suffer for a whole day, and when the Embrocation is procured the headache is gone.

J. B. will be glad at all times to give New Cases, where through exposure or accident the original Case is rendered unsightly and unsalable.



*"Ex nihilo nihil fit."*



# THE HOP BITTERS COMPANY, LIM.

VERSUS

## ALBERT N. BECK, HASTINGS.

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BY AN ORDER made on the 13th day of July, 1888, by the Honourable Justice Stirling, in the Lord Chancellor's Court (Chancery Division), High Courts of Justice, the Defendant was perpetually restrained from "Infringing the Plaintiffs' Trade Mark, and from selling or offering for sale any HOP BITTERS, TONIC BITTERS, or other compound contained in bottles having affixed thereto any labels similar to or only colourably differing from the bottles and labels used by the Plaintiffs, or so contrived or prepared as to represent or lead to the belief that the compound manufactured or sold by the Defendant is of the Plaintiffs' manufacture."

N.B.—Any infringements on our rights or trading on our reputation by vending compounds as substitutes for HOP BITTERS will be summarily dealt with.

We would advise the Trade not to be induced under any pretext to sell or offer for sale compounds in imitation of our HOP BITTERS, but rather to trade only in the genuine article, which is the most honourable, and, in the long run, most profitable. Printed matter will be sent to any Chemist on application, and all inquiries promptly attended to.

---

MANUFACTURED ONLY BY  
**THE HOP BITTERS COMPANY, LIM.**  
41 FARRINGDON ROAD, LONDON, E.C.



# NEPENTHE.

(Prepared exclusively from Opium.)

The safest and best preparation of Opium ; produces neither headache, sickness, nor constipation.

Dose, the same as that of Tinct. Opii, B.P.

**PRICE 8s. PER POUND.**

*In the analysis of 10,000 prescriptions recently published in THE CHEMIST AND DRUGGIST, Nepenthe occurred more frequently than any other proprietary article except Vaseline and Chlorodyne.*

The word *NEPENTHE* being registered under the Trade Marks Act, Messrs. FERRIS & CO. have the *SOLE RIGHT* to use it; and the Trade are respectfully cautioned against any infringement of their Trade Mark *NEPENTHE*, and the use of any Mark so nearly resembling it as to be calculated to deceive; and against the application of any false trade description, and against any interference with their privilege (see 'Merchandise Marks Act, 1887,' 50 & 51 Vict. ch. 28); and also against dispensing any but Messrs. Ferris & Co.'s preparation when *NEPENTHE* is ordered in a prescription.

---

*Trade and Wholesale Terms for NEPENTHE upon application.*

---

## FERRIS, BOORNE, TOWNSEND & BOUCHER

Wholesale and Export Druggists, BRISTOL.

**FIVE PRIZE MEDALS AWARDED.**



# BEECHAM'S PILLS

## CAUTION.

THE PUBLIC ARE HEREBY INFORMED that by an order made by Mr. Justice Stirling on the 16th day of June, 1888, in an action in the High Court of Justice (Chancery Division), Beecham v. Pritchard, the Defendant was perpetually restrained from infringing the Plaintiff's Trade Mark, and from printing, writing, or marking on or affixing to, or causing or permitting to be printed, written, or marked on, or affixed to, any show or other cards, or labels, or pill boxes, the words "BEECHAM'S PILLS," or any mark calculated or contrived so as to lead to the belief that the Pills sold by the Defendant are the Plaintiff's Pills.

PROCEEDINGS WILL BE TAKEN against any person selling Pills as "BEECHAM'S PILLS" other than those manufactured and supplied by the Plaintiff, Thomas Beecham, of St. Helens, Lancashire, the Proprietor of "BEECHAM'S PILLS."

OPPENHEIM & MALKIN,

61 Lord Street, Liverpool,

June, 1888.

Solicitors for the said Thomas Beecham.



# HOLBROOK'S WORCESTERSHIRE SAUCE

# HOLBROOK'S LONDON RELISH

# HOLBROOK'S PURE PICKLES

## NOTICE.

THE BIRMINGHAM VINEGAR BREWERY COMPANY, LIMITED, the  
Plaintiffs in the Action of THE BIRMINGHAM VINEGAR BREWERY  
COMPANY, LIMITED, Plaintiffs,

*and*

THE LIVERPOOL VINEGAR COMPANY and Mr. DANIEL HOLBROOK,  
Defendants,

Desire to draw the attention of the public and the trade to the Order made in this  
Action, on Motion on the 11th June, 1888, by his Lordship Mr. Justice North. The  
Order, after the usual prefatory words, was to the following effect :—

“ This Court doth order that the Defendants, the Liverpool Vinegar Company and  
“ William Daniel Holbrook and each of them, their and each of their servants, agents  
“ and travellers, be restrained until judgment in the Action, or until further order, from  
“ selling or allowing to be sold, or representing or causing or allowing to be repre-  
“ sented, any goods manufactured by the Defendant Company as being the goods known  
“ as ‘ Holbrook’s Worcestershire Sauce,’ ‘ Holbrook’s London Relish,’ and ‘ Holbrook’s  
“ ‘ Pure Pickles,’ and from representing or causing or procuring to be represented, or  
“ doing anything which shall lead to the belief that the articles manufactured and sold  
“ by the Defendant Company are the goods or manufacture of the Plaintiffs, or that  
“ the Defendants are the Proprietors of the articles known by the aforesaid names.”

The Birmingham Vinegar Brewery Company, Limited, will continue to use the  
labels bearing the title of “ Holbrook & Co.” in connection with the above-mentioned  
articles substantially in the form adopted by them since the incorporation of the Com-  
pany. The Company will protect their right to the names above mentioned and to the  
labels against any person or firm who may attempt to counterfeit them, or to manu-  
facture or sell articles labelled or wrapped up in such a manner as to induce the public  
to believe that they are the goods known as “ **Holbrook’s Worcestershire  
Sauce,**” “ **Holbrook’s London Relish,**” or “ **Holbrook’s Pure  
Pickles,**” which for so many years have been manufactured and sold by the

**BIRMINGHAM VINEGAR BREWERY CO.**



# SYR. HYPOPHOS. CO., FELLOWS.

CONTAINS THE ESSENTIAL ELEMENTS to the Animal Organisation—Potash and Lime ;

THE OXIDISING AGENTS—Iron and Manganese ;

THE TONICS—Quinine and Strychnine ;

AND THE VITALISING CONSTITUENTS—Phosphorus, combined in the form of Syrup with SLIGHT ALKALINE REACTION.

IT DIFFERS IN EFFECT FROM ALL OTHERS, being highly susceptible to oxidation during respiration, pleasant to taste, acceptable to the stomach, and harmless under prolonged use.

IT HAS SUSTAINED A HIGH REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. Is employed also in various nervous and debilitating diseases with success.

ITS CURATIVE PROPERTIES are largely attributable to Stimulant, Tonic, and Nutritive Qualities, whereby various organs are recruited.

ITS ACTION IS PROMPT, stimulating the appetite and the digestion; it promotes assimilation, and enters directly into the circulation with food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; hence it is of great value in the treatment of mental and nervous affections. From its exerting a double tonic effect, and influencing a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE.—CAUTION.—The success of Fellows' Hypophosphites has prompted certain persons to utter substitutes. Mr. Fellows, having examined several of these, finds no two samples identical, and all differ from the veritable, in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, in the property of retaining the strychnine in solution, and in the medicinal effects.

## SPECIAL NOTICE.

Lest any Members of the Medical Profession may be misled by the many specious advertisements of imitators of Fellows' Syrup of Hypophosphites, Mr. Fellows begs to publish the following, viz.—

That he is the sole inventor of the formula of Fellows' Compound Syrup of Hypophosphites, which was discovered and prepared for the first time for his own use in 1865, when out of health ;

That the testimonials bear date from the year 1868 ;

That the genuineness of the early testimonials was certified by Aaron Alward, Esq., M.D., Mayor of the City of St. John, Province of New Brunswick, Canada, and the great seal attached on 6th February, 1868 ;

That the formula of the Syrup has never since been changed.

Mr. Fellows therefore refers to the printed form surrounding every bottle, where the letters may be found in detail.

As cheap substitutes are frequently dispensed instead of the genuine, Mr. Fellows can only advise that his Syrup should be prescribed in the original bottles, 4s. or 7s., where the distinguishing marks will prevent imposition.

To guard against possible substitution and disappointment in prescribing,  
please write "Syr. Hypophos. Fellows."

WHOLESALE AGENTS—

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.



# EXCHANGE COLUMN.

This section of "The Chemist and Druggist" must be closed for press by Thursday noon of each week. Remittances payable to EDWARD HALSE.

For terms, &c., please apply to the Publisher, at the Office, 42 Cannon Street, E.C.

## FOR DISPOSAL.

### Drugs and Chemicals.

- 1 cwt. English citric acid; offer requested, about market price. Richardson, Alford.
- Poppy heads; medium size; sample 1,000 5s. Connor, Chemist, Doncaster.
- Two pounds ol. cubebs; what offers? John Boocock, 26 Great Garden St., Burmaholts, Leeds.
- Surplus. 16 lbs. new ess. limonis, 5s. 6d.; exchange anything saleable. Matthews, Cannon Street, Middlesborough-on-Tees.
- Seven-pound lots good gum, 2s. 6d. per lb.; sample pound, post free; 7 lbs. chamomiles, good condition, 1s. 3d. lb.; 1 oz. (Turkish) otto rose, 25s. Steward, Bridgnorth.
- Half ton rad. glycyrrh., 5s. cwt.; pulv. gentian, 3d.; pulv. glycyrrh., 2d. lb.; flor. anthesis, good, 9d.; gum tragacanth, white, 3s.; gum kino, 6d.; baehi, 6d.; 2 cwt. rad. rhei, India, 1s. lb.; pepio, P.B., 1s. c. Smith, 227 Commercial Road, London.

### Educational.

- Chemist and Druggist, last 18 years, unbound, 1s. each year. Stead, Chemist, Heckmondwike.
- Quain's "Dictionary Medicine," six 5s. parts, new; what offers? Manager, Morris, Chemist, Wood Green, London, N.
- Chemist and Druggist and Journal, volumes and odd, 1860 to 1883; monthlies 4d., weeklies 1d., carriage extra, or offers. Williams, Chemist, Coleford, Gloucestershire.
- "History of Freemasonry," by Freke-Gould, complete in six vols.; perfect condition. What offers? Arch, 15 Bartholomew Street, Leicester.
- Bentley's "Manual," 6s. 6d.; Proctor's "Pharmacy," 5s. 6d.; ditto (nearly new), 7s. 6d.; Wills' "Materia" (plates), 5s. 6d.; "Pharmacopoeia," 1835 (nearly new), 4s.; Squire, 2s.; Rose, 2s.; Rivers Wilson, 1s. 3d. Gower, 47 Sigdon Road, Hackney, London.
- Gerrard's "Materia Medica," 4s. 9d.; Bentley's "Botany," 5s. 9d.; Ince's "Pharmaceutical Grammar," 2s. 9d.; Wills' "Companion to Botany," 2s. 3d.; latest editions and carriage paid. "H," Chiltern Villa, Leighton Buzzard.

### Soda-water Machinery.

- Soda-water machine, gasworks and filter complete, second-hand, 150 dozen per day, 20l.; syphon filler, second-hand, little used, 2l. 10s., bargain; 50 gallon galvanised tank, with filter complete, second-hand, excellent condition, cheap. Particulars, N. S. G. Wilcocks, 45 Avon Street, Bath.
- One No. 1 soda-water machine, by Barnett & Foster, including 2-inch pump, gauge and solution pan, for hand or steam power; 1 No. 3 soda-water machine, complete, by Hayward Tyler & Co.; gasholder, tub and weight, complete, for No. 1 plant; 1 copper gas bell only, 4 feet by 2 feet; 1 leaden generator for No. 1 plant; 1 single wiring stand; 1 3 inch vertical deep-well pump, complete; 1 double wiring stand; 1 corking rack; 1 Pritchard's syringing-pan; also a quantity of plain second-hand syphons, by Monlollot, Paruett & Foster, Gerant, and other makers, and about 50 doz. plain pint syphons (second-hand), cheap. Apply, Iliris & Co., Ascham Street, Kentish Town, London, N.W.

## Proprietary Articles.

- 6 dozen Troke's capsuled horse pills, various, 1s. 9d. per dozen. Bathe, Chemist, Torquay.

## Formulae.

- Reliable recipes, 6d. each; full set of 130, neatly copied in book, 7s. 6d.; send for list. "Chemist," Edwards, Wye, Kent.
- One dozen first-class recipes for articles in daily demand, used in some of the leading English houses; sent post free for 2s. 6d. J. T. Webb, 77 Dover Street, Belfast.

## Shop Fittings.

- Two-grain pill machine, roll 33. Particulars, Wilby, Chemist, Leicester.
- For sale or exchange, about 12 doz. wide and narrow mouth shop rounds. Bowe, Chemist, Hawes.
- Carboys, two 10-gallon, cut stoppers, quite new, too large for window. Smith, Chemist, Horochurch, Essex.
- Pessary-mould of 100 or 120 grains, for six or twelve. State price to Provost, Chemist, Huntingdon.
- Four mahogany show-cases, with plate glass; also plate-glass shelves for window. Sizes and prices on application to James Dean, Market Place, Burslem.
- Twelve-inch chemical balance by Schickert, Dresden, perfect instrument, cost 16l. 16s., will take 8l. 8s. P. Chambers, Chemist, Liverpool.
- 114 3-oz. pomule bottles, boxwood tops, never used;  $\frac{1}{2}$  gross 2-oz. cologne bottles; 2 dozen ditto, 4-oz.; offers for lot. Mahoney, 723 Old Kent Road.
- Two sets of oak frames with nestel shelves, 59 each, 2 ft. 10 in. high, 1 ft. 10 in. broad, 6 $\frac{1}{2}$  in. front to back; also one set mahogany ditto, with cupboard under, 4 ft. 2 in. high 4 ft. 11 in. wide, 10 in. front to back, thirty-eight drawers; also three pill machines. Wilkinsoe & Co., Fitzalan Square, Sheffield.
- 6 ft. counter, mahogany top and front, with hole for basin, &c.; 3 wall cases, sizes 5 ft., 3 ft. 2 $\frac{1}{2}$  ft.; 2 nests mahogany drawers, one 53 drawers, one 28 drawers; 1 12-gal. carboy, as Maw's fig. 1, cut glass stopper; 4 2-gal. upright carboys; to be sold very cheap, room being wanted. Apply, Robinson, Chemist, Northfleet.
- The entire fittings of a chemist's shop, 40l.; one 6 ft. second-hand dispensing screen, 4l.; dispensing screen, 7 ft. long, with handsome tablet in centre, nearly new, 5l. 10s.; 180 gold labelled shop rounds and jars, 9l. 10s.; 8-ft. ebonyised wall-case, new, 7l. 10s.; 12-ft. range mahogany-fronted drawers, with crystal knobs and bevelled-glass labels, 10l.; 12-ft. range polished pine ditto, gold labelled, 6l. 10s.; 5-grain second-hand pill-machine, good, 12s. 6d.; mahogany case and desk, 2l. 15s.; polished pine ditto, 2l.; 4 4-gal. carboys, 10s. each; 6 6-gal. ditto, 12s. each; 2-gall., 5s. each; 3-gall., 7s. each; 1 6-gall. swan-neck ditto, on stand, 2l. 10s.; 24 3-lb. blue jars, labelled, 2s. each; 12 4-lb. ditto, 2s. 6d. each; 24 4-lb. best pink jars, gold-labelled, 4s. 6d. each; bent front toothbrush case, 25s. R. Tomlinson & Sons, Bond Street, Birmingham.

## Miscellaneous.

- 10 baby's medicine-spoons, white metal, 2s. 6d. Stead, Chemist, Heckmondwike.
- A 200-gallon iron tank, with tap. Cave, Whittlesea.
- Giving up part of trade. Large lot of surplus stock; list sent on application. Newham & Pickard, Shude Lane, Sheffield.
- Six-air musical box, good tone, price 50s. Handley, care of Mr. Bisker, Chemist, Bridgewater.
- Microscope slides, in great variety, 5s. dozen; list. Henry Ebbage, 314 Caledonian Road, London.
- Surplus. Job lines, much under cost, to clear; include drugs, chemicals, patents, and sundries; send stamp for detailed list to Gillman, 5 Rotham Road, N.W.
- Burnisher, will take cartes, cabinets, and imperials, with atmospheric burner; will exchange for old oil painting or anything useful. Howell, Fitzalan Square, Sheffield.
- Large variety of chemists' sundries, new and perfect, 25 to 50 per cent. below wholesale prices; send for list. Wright, 25 Broadway, Hammersmith, W.
- Special offer to clear a few odd lots of otopper. Fifty 1s. five-quire packets, extra thick, cream laid, for 30s., or 7s. 6d. per doz.; another lot of eighty 1s. packets for 47s. 6d., or 7s. 6d. per doz.; another lot of forty five-quire packets cream-laid note for 15s. 6d.; about twenty thousand envelopes, cream laid, court shape, at 17s. per 500. Sample packet of any free by post for twelve stamps. Preece, chemist, Bildeston, Suffolk.
- Glass bell aquarium, ebonyised foot, 16 inches diameter, 5s.; olive shop jars, 9 3-lb., 4 2-lb., 1s. each; spring root-cutter, on mahogany slab, 7s.; 4 No. 4 Wedgwood funnels, slightly chipped at tips, 2s. each; Burrows' 4-dozen soda-water stand, 6s.; glass taps for spirit kegs, 1s. each; label-clampers, 7d. each; about a gross white teats, slightly soiled, 2s. lot; 2 pint iron mortars, new, 1s. 6d.; 3 dozen bottles marble-craier, what offers? "B," Miller, 11 Todd Street, Manchester.

## WANTED.

- Bentley's "Manual of Botany," latest edition. H. E. Herington, Leighton Buzzard.
- Chemist and Druggist wanted July 31, 1836. Macpherson, 97 Dalry Road, Edinburgh.
- Open to buy 500 gallons crude carbolic acid. Robertson, Chemist, Oban.
- Upright counter, homoeopathic, spectacle, and outside dentist's cases, forceps, and shop-rounds. 263/2.
- Pharmaceutical Journal from July 1 to Dec. 30, 1834; price carriage paid, to W. Bowers, 34 Victoria Street, Dublin.
- Wills' "Materia Medica," Bentley's "Botany," Ince's "Latin Grammar"; lowest price and particulars to Hancock, 181 Parliament Street, Liverpool.
- For surgeon's private dispensary, small choice lot of bottles, pots, &c.; must be excellent in quality, and cheap; list and price to 267/24.
- Part or entire fittings, with or without stock, must be modern and in good order. Schedule and full particulars to "Res," 20 Junction Road, N.
- Copies of Atfield, Bentley, Wills, Ince, Proctor, "Pharmacopoeia," 1885; best price given. Send carriage paid, to Gower, Bookseller, 47 Sigdon Road, Hackney, London.



THE MOST POPULAR PATENT MEDICINE.

# THE VERDICT

Our Plebiscite is that **BEECHAM'S PILL** is the favourite of the Public.

## AN IMPORTANT VOTE

Taken by means of one of the Post-card Competitions of THE CHEMIST AND DRUGGIST, brings out the fact. Chemists were the voters, and they declare that

# BEECHAM'S PILLS

Are NINE TIMES MORE USED than all other principal Patent Medicines of the same class put together, that is to say—Beecham's Patent Pills received

## 90·8 PER CENT. OF THE VOTES!

The remaining 9·2 per cent was distributed amongst 15 separate articles, not one of which approached the unit of percentage. No Patent Medicine has ever enjoyed such popularity as this : because the intrinsic value of Beecham's Pills is a well attested fact. No medicine has been so well advertised, and the Proprietor is ever ready to assist Retail Chemists in pushing sales by giving them full supplies of attractive and useful advertising matter. Here is the result—90·8 per cent. of the Chemists who have voted in this competition declare that **BEECHAM'S PILLS** are the

**MOST POPULAR PATENT MEDICINE.**

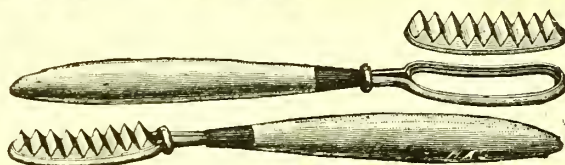
**MANUFACTORY—ST. HELENS, LANCASHIRE,**

Where all requests for Music Portfolios and Wholesale quantities of the Medicine should be addressed.



**H. A. GOODALL & CO.,** ESTABLISHED 1852.  
 Bartlett's Buildings, LONDON, E.C.  
 WHOLESALE ONLY. NO PRIVATE BUYERS SERVED.

## THE "IDEAL" FELT TOOTH BRUSH.



A GREAT NOVELTY IN TOOTH BRUSHES.

Prevents decay, soothes the gums, and polishes the teeth, which no other Brush can excel.

### HANDLES.

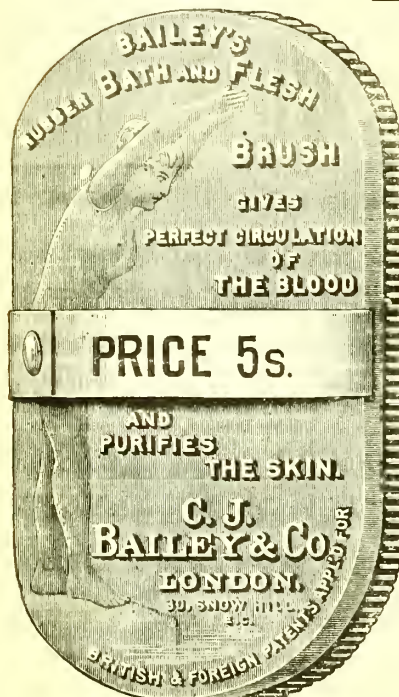
Assorted Bone and Horn, with Nickel-plated Imperishables, 11/- per dozen.

### BOXES OF FELT,

Containing 18 Heads, 7/- per dozen.

An Attractive Show Card given with each Dozen.

## BAILEY'S RUBBER FLESH BRUSH.



We have received for trial and notice from Messrs. Bailey & Co., 30 Snow Hill, London, E.C., specimens of their bath and flesh brushes. These are entirely formed of vulcanised india-rubber. The back is about one-third of an inch in thickness, and is sufficiently flexible to adapt itself to the curved surfaces of the body and limbs. In the place of the bristles of the ordinary toothbrush is a series of small india-rubber rods, nearly two thousand in number. These have a very efficacious action in removing dirt from the hands, and in rubbing away the dead cuticle from the surface of the skin of the body. The action of the brush used with soap and water more nearly resembles shampooing than ordinary rubbing. It is admirably adapted for use after exercise, being more detergent than a sponge or towel, and producing a very pleasant effect after fatigue. For aches, it is certainly one of the best flesh brushes we have seen, as it leaves the skin in a condition most favourable to its healthy action. —*Field*, April 14, 1888.

### BAILEY'S RUBBER BATH BRUSH.

Valuable as the use of the flesh brush is when employed in the bath in removing the outer or dead portions of the cuticle, and so promoting the healthy action of the skin, its use is not unfrequently objected to, on account of the redness it produces, owing to the bristles irritating the skin. Messrs. Bailey & Co. have forwarded to us a bath brush formed, so to speak, of bristles or slender rods of india-rubber, many hundreds in number. These are set in a flexible back, which adapts itself to the curves of the body. When used in the bath with any ordinary soap its action in rubbing away the effete portions of the skin, and leaving a beautifully smooth surface, is most satisfactory, and it produces a sensation of comfort that must be felt to be fully appreciated. The most skilled shampooer could not obtain a more marked effect. The gentle rubbing friction of the brush not only promotes the circulation of the blood but by causing a due action of the skin, relieves the congestion of the muscles or internal organs, and produces a feeling of relief after fatigue that is most satisfactory. We can recommend this new bath brush very strongly. Smaller brushes are also made as toilet brushes, which are most efficacious in cleansing and whitening the hands. These brushes may be obtained of any druggist or dealer in toilet articles, the wholesale depot being 30 Snow Hill, E.C. —*Queen*, April 14, 1888.

Price TWO GUINEAS per dozen.

Send us postal order and we will forward by return post.

For Sale by all Chemists.

## CLEAN HANDS

For everyone, no matter what the occupation, by using



It removes Ink, Tar, Grease, Paint, Iron Stains, and in fact everything foreign to the colour of the skin, simply by using with soap and water. It never becomes foul or carries any contagion, and will not injure the most delicate skin, as is done by the use of Pumice Stone, Bristle Brushes, &c. **Printers, Penmen, Typewriters, Blacksmiths, Machinists, Shoemakers, Painters, Farmers,** and all whose hands are stained by their labour can cleanse them easily without rapturing or weakening the skin.

Price One Shilling; large size, Two Shillings. Send us postal order and we will forward by return post. For sale by all Chemists.

Small size, 8s., and Larger size, 17s. per dozen.

C. J. BAILEY & CO.,  
 30 SNOW HILL, LONDON.

**C. J. BAILEY & CO.,** Manufacturers, 30 Snow Hill, LONDON, E.C.



TELEGRAPHIC ADDRESS: "DUKAS LONDON."

TELEPHONE No. 2727.

# DUKAS & CO.

Wholesale Brush Manufacturers,

20 RED LION SQUARE, LONDON, W.C.

HAVE JUST ISSUED A NEW COSTLY

ILLUSTRATED CATALOGUE OF FANCY BRUSHES, ETC.

Consisting of 100 Pages, size  $12\frac{1}{4}$  by  $9\frac{1}{4}$ ,

splendidly Illustrated with Engravings the

full size of the various Brushes, as

specimen shown here.

*Copies of this Catalogue  
can be had on application,  
price 1/- post free.*

This NEW  
PRICE LIST  
is most com-  
prehensive in  
details, and will  
be found inval-  
uable to the Trade  
for the facilities it  
affords for sending orders  
per post; the Brushes,  
&c., are so minutely described  
that it is quite unnecessary to  
see samples before ordering.

## DUKAS & CO., LONDON



# **FLESH GLOVES.**



## **SOLPORT BROTHERS,**

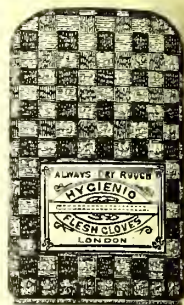
68 SHAFTESBURY ST., NEW NORTH ROAD, LONDON, N.

MANUFACTURERS (WHOLESALE ONLY) OF

### **FLESH GLOVES**

### **CORN & BUNION PLASTERS**

### **& CHEST PROTECTORS.**



PRICE LISTS AND SAMPLES ON APPLICATION.

The following is respectfully commended to the  
Notice of Exporters:—

### **FOWLER'S**

### **CORN, BUNION, & CHILBLAIN PLAISTER,**

PRICE 1s. 1½d. PER BOX, [2]

Has been extensively used in Royal and distinguished circles for over half  
a century, still maintaining its pre-eminence against all competition.  
Relief immediate, cure certain, and comfort, however tight the boot.

**W. F. SMITH, M.P.S.,**  
280 WALWORTH ROAD, LONDON.

ORDERS FROM ABROAD EXECUTED THROUGH SHIPPERS.

## **CORK SOCKS.**

These articles are strongly recommended as  
A Preventive against Colds,  
Rheumatism, &c.

Can be obtained through all Chemists' Sundriesmen, &c.

MANUFACTURERS (WHOLESALE ONLY)—

**BISHOP & WARDEN,**  
161 GT. CHARLES ST., BIRMINGHAM.

Price Lists Free on application.



30

VARIETIES

AT FROM

**2/-**

PER DOZEN PAIRS.

LISTS ON APPLICATION.

# **PATTISON'S**

# **BATH**

# **GLOVES.**

ORIGINAL MANUFACTURER,

## **GEORGE PATTISON,**

139 St. John Street Road, LONDON, E.C.



# S. MAW, SON & THOMPSON'S BATH GLOVES, RUBBERS, &c.

	Gloves. (Pairs.)	Straps.	Pads.
CAEFACIO OR BADEN, No. 1, soft Brown per doz. 5/4 & 6/0	6/0	9/0	5/4
CAEFACIO OR BADEN, No. 2, hard Brown . . . per doz. 6/0	6/0	9/0	5/4
CAEFACIO OR BADEN, No. 3, soft Brown, assorted patterns, per doz. 6/6	6/6	9/0	5/4
CAEFACIO OR BADEN, as- sorted patterns, export quality, per doz. 4/0	4/0	(Red labels)	
CAEFACIO (the U.S.), Striped soft Brown . . . per doz. 6/6	6/6	9/0	5/4

	Gloves. (Pairs.)	Straps.	Pads.
HONEYCOMB, White. per doz. 5/4	5/4	9/0	5/4
REVERSIBLE, No. 1, one side soft Brown, the other best White Turkish . . . per doz. 6/8	6/8	11/0	5/4
REVERSIBLE, No. 2, one side hard Brown, the other White Honeycomb . . . per doz. 6/8	6/8	11/0	5/4
REVERSIBLE, No. 3, one side Egyptian Loofah, the other best White Turkish, per doz., single 4/0	4/0	13/0	—

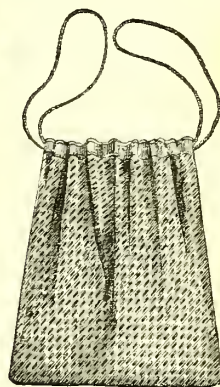
TURKISH THIN WHITE GLOVES, per doz. pairs, 2/9 & 3/-	PADS, per doz. 3/8
Ditto Best Quality . . . 4/9 & 6/-	„ „ 5/-

SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

## S. MAW, SON & THOMPSON'S SUPERIOR QUALITY WATERPROOF CHECK SPONGE BAGS.

No. 1	2	3	4	5	6
7×6	8×7	9×8	10×9	11×10	12×11 inches.
6/0	7/0	9/0	11/0	12/6	16/0 per dozen.

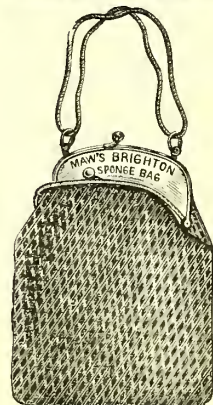
For other descriptions see Quarterly Price Current, page 84.



## S. MAW, SON & THOMPSON'S BRIGHTON SPONGE BAGS, WITH BALL CLASP FASTENINGS, NICKEL-PLATED.

No.	2	3	4	5	6
	8×7	9×8	10×9	11×10	12×11 inches.
CHECK... ..	16/0	18/0	20/0	26/0	28/0 per dozen.
PASLEY ... ..	18/0	20/0	22/0	28/0	32/0 „

SPECIAL QUOTATIONS TO WHOLESALE BUYERS.



THE BRIGHTON  
SPONGE BAG.

to 12 ALDERSGATE STREET, LONDON.



# TOWER TEA.

## A MOST VALUABLE AGENCY.

**TOWER TEA.**—Only the choicest kinds, selected from the London import market, are used. Absolute reliance can be placed on its perfect purity and uniform high quality.

**TOWER TEA.**—Used by thrifty housekeepers; sold by enterprising agents in every town in the United Kingdom, who find it a profitable Agency.



*Tower Tea*

Registered Trade Marks, Nos. 44,027 and 43,992.

**NOTE.** THE ABOVE TRADE MARKS APPEAR ON EVERY PACKAGE.

**TOWER TEA.**—HUNDREDS OF TESTIMONIALS from all parts of the kingdom speak to the excellent character of this Tea, its popularity with all classes, and the high value of the Agency. A representative selection of these testimonials has been published, and can be had on application, with samples of undermentioned Teas; also the little pamphlet, "A Short History of Tower Tea"; and the book of pictures, "Voyage and Adventures of Ah Chin Chin" (1s.).

**TOWER TEA, 1s. 4d** per lb. (retail price) Sound Wholesome Tea.

**TOWER TEA, 1s. 8d.** " " Powerful Tea, whole and semi-leaf.

**TOWER TEA, 2s.** " " Fine First Crop Tea, from India, China, and Ceylon.

WHERE VACANCIES MAY EXIST, AGENTS ARE APPOINTED BY

**THE GREAT TOWER STREET TEA CO., LD.**  
**3 JEWRY STREET, LONDON, E.C.**



# MITRE TEA.

## COMFORT & PROLONG YOUR EXISTENCE

### BY DRINKING

## MITRE TEA.

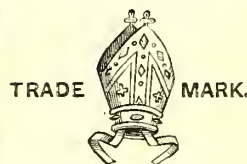


## MITRE TEA.



TRADE MARK.

litre "Broken Leaf"	s. d.
litre "Broken Am.	1 4
Pekoe " ... ..	1 8
litre "Thrift" (whole leaf)	1 8
litre "Kee-Mun" ...	2 0
litre "Amgoorie" ...	2 6



TRADE MARK.

Mitre "Broken Leaf"	s. d.
Mitre "Broken Am.	1 4
Pekoe " ... ..	1 8
Mitre "Thrift" (whole leaf)	1 8
Mitre "Kee-Mun" ...	2 0
Mitre "Amgoorie" ...	2 6

Fac-Simile of Show Card distributed Gratis to all Agents.

old by Specially Selected Agents. Wrapped in  $\frac{1}{4}$ -lb.,  $\frac{1}{2}$ -lb., & 1-lb. Parcels.

## VALUABLE AGENCY.

Framed Show Cards, Enamelled Iron Tablets, Posters, Window Transfer, and Handbills with Agent's Name on supplied free. Newspaper and Railway Station Advertisements to suit the requirements of Agents. Applications for Agencies where unrepresented will receive prompt attention. Price Current and Pamphlet, with Terms, post free.

## KEARLEY & TONGE, MITRE SQUARE, LONDON, E.C.



# BROOKE, BOND & CO.'S CHEMISTS' TEA AGENCY



We are open to receive applications for our Tea Agency from Chemists, Confectioners, & others.

A good Agency pays the Shop Rent.

Our Agents are making substantial additions to income by offering our Teas. Of this we have proof—positive, ample, overflowing!

Prospectus and Samples free on application.

**BLACK OR MIXED TEAS, at 14, 18, 2-, 28, and 3-, in  $\frac{1}{4}$ ,  $\frac{1}{2}$ , and 1 lb. Packets**

Whoever introduces OUR TEAS to the consumer will earn a safe and regular income. Our TEAS are widely and favourably known. CHEAPNESS at Brooke, Bond's means not low price merely—anybody can quote low prices—but BEST for LEAST MONEY. Quality is the essence of the question. Money saved is money earned, and you almost double the buying power of your money when you buy your Tea from BROOKE, BOND & Co. IN BROOKE, BOND & CO.'S TEAS PRICE AND QUALITY CLASP HANDS. [1]

**BROOKE, BOND & CO.,** Wholesale and Retail Tea Dealers, 17 Piccadilly and 29 Market Street, **MANCHESTER.**

**PEARSE & WHEATLEY, 42 MINCING LANE, LONDON**

(Telegraphic Address—PACIFICUS LONDON.)

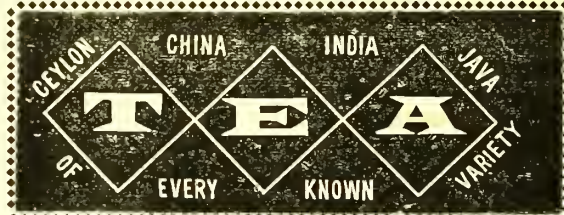
**WHOLESALE DEALERS & EXPORTERS OF TEA, COFFEE, ETC.**

SUPPLY AT LOWEST MARKET RATES EITHER FOR HOME CONSUMPTION OR EXPORT.

In original Boxes, Half Chests, or Chests, as imported.

Duty Paid or under Bond.

Prices and Samples on application.



Or in Lead or Foil Packets ( $\frac{1}{4}$  lb.,  $\frac{1}{2}$  lb., 1 lb., &c.),

Or in kilos.,  $\frac{1}{2}$  kilos., or fractional parts, for countries using these weights.

Fancy Tin Boxes any size or weight.

**SPECIAL BLENDS OF TEA** (Duty-paid prices quoted).

No. A, 10d.	No. T, 11d.	No. 1, 1/	No. 2, 1/2	No. 2a, 1/3	No. 3, 1/4	No. 3a, 1/5	No. 4, 1/6	No. 4a, 1/7½	No. 5, 1/9	No. 5a, 1/10½	No. 6, 2/	X, 2/4
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In Boxes, 20 lbs. or 40 lbs.;  $\frac{1}{2}$ -Chests, 60 lbs.; or Chests, 100 lbs. 60 lbs. carriage paid to any Station in England or Wales. Terms—Net Cash with order.

**CEYLON TEAS (PURE)—**  
IN LEAD PACKAGES ( $\frac{1}{4}$  lb.,  $\frac{1}{2}$  lb., or 1 lb.)  
Most attractively labelled.

Culloden	Grange	Sheen	Orwell	Mooloya	Pen-y-lan	St. Ley's
1/4	1/6	1/8	1/10	2/2	2/6	2/9

Duty-paid Prices.  
(For Export under Bond, 6d. per lb. less.)

Export Department.—Teas or Coffees in Bond. Shipped to any part of the world. Terms, f.o.b. London; against banker's credit or remittance. Samples, Price Current, and every information on application.

**RAW COFFEES** (Duty 14s cwt.).  
Rio, Santos, Costa Rica, Mocha, East India, Mysore, Naidoobatum, Jamaica, Porto Rico, Ceylon, Guatemala, Manila, Java, &c.



AT MARKET PRICES.

**ROASTED COFFEES** (Duty Paid).

10½d., 1/1, 1/2, 1/3, 1/4; Mocha, 1/5.

In Bags, 28 lbs., 56 lbs., or 112 lbs. net. Bags free  
Also supplied Ground in 7-lb., 14-lb.,

28-lb., or 56-lb. tins.

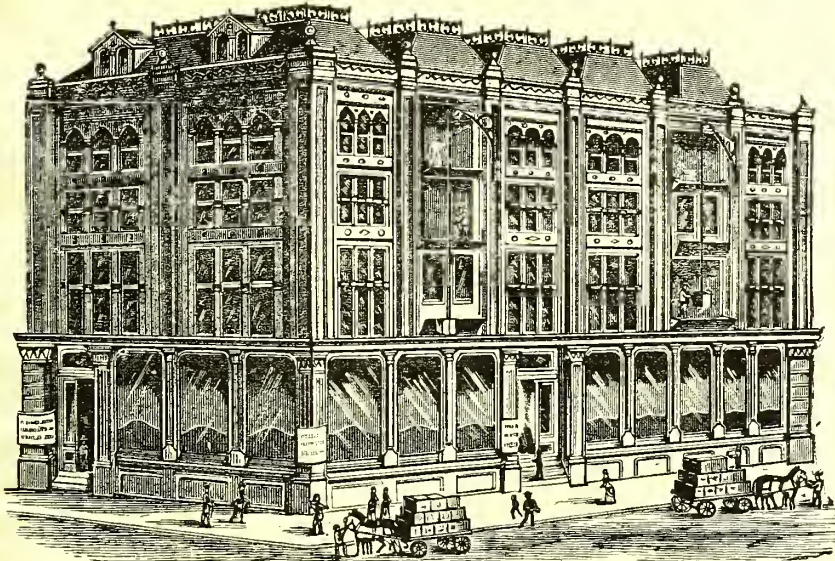
**THE NEW FRENCH COFFEE—CAFE FRANCAIS** to sell at 10d., 1/1, 1/4, and 1/6, in  $\frac{1}{4}$  lb.,  $\frac{1}{2}$  lb., and 1 lb. Canisters. Most tastefully labelled, without any firm's name appearing.



# HESELTINE'S

THE PREMIER TEA OF INDIA AND  
CEYLON, IS THEIR SPECIAL IMPORTATION  
AND THE PERFECTION OF TEA.

REGISTERED "TAPRABUNDA" TRADE MARK.



OFFICES AND DUTY PAID WAREHOUSES.

For Retail at 1s. 8d., 2s., and 2s. 6d.

In Lead Packets,  $\frac{1}{4}$  lb.,  $\frac{1}{2}$  lb., and 1 lb.

*Terms of Agency, and Samples of the Tea, on application.*

## WM. HESELTINE & SON,

56 Wilson Street, and 1 & 3 Earl Street, Finsbury,

**LONDON, E.C.**

AGENTS WANTED WHERE NOT ALREADY REPRESENTED.

Telegraphic Address—"TAPRABUNDA LONDON."



# MILK IN POWDER

UNSWEETENED OR SWEETENED.

The Cheapest, Purest, and most Nutritious of all similar productions.

**MILK IN POWDER**

UNSWEETENED OR SWEETENED.

The Cheapest, Purest, and most Nutritious of all similar productions.



UNSWEETENED OR SWEETENED.

The Cheapest, Purest, and most Nutritious of all similar productions.

# MILK IN POWDER

**MILK IN POWDER**

UNSWEETENED OR SWEETENED.

The Cheapest, Purest, and most Nutritious of all similar productions.



# "MONTSERRAT"



(TRADE MARK.)



## N.B.

"The "Montserrat Company's" Lime Fruit Juice and Cordials are now in large and general demand everywhere, and are being extensively advertised. Every Trader should stock them. Their success has caused many IMITATIONS to spring up, many of them utterly worthless Concoctions. It is, therefore, of utmost importance to Traders, as well as to the Public, to see that the Trade Marks of the MONTSERRAT COMPANY (Limited), and the SOLE CONSIGNEES, are on the Capsule of each Bottle. The word "Montserrat" is also duly registered as a Trade Mark. Legal proceedings will be instituted against all persons infringing the Trade Marks as above named.

Show Cards, Handbills, and Leaflets supplied free of charge.

" MONTSERRAT "

" MONTSERRAT "

" MONTSERRAT "

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SOLE CONSIGNEES—

**EVANS, SONS & CO., LIVERPOOL.**

London: EVANS, LESCHER & WEBB. Canada: EVANS, SONS & MASON (Limited)  
Montreal, Toronto, and Victoria, British Columbia.

UNITED STATES—E. C. RICH CO. (Limited), New York. AUSTRALASIA—JAMIESON & CO.  
George Street, Sydney, N.S.W. Also Agents in nearly every part of the World.



# TREBLE YOUR PROFITS

By Selling your own Proprietaries, manufactured from Reliable Recipes.

I have sold fully 1,500 Chemists many of my valuable formulae, which have been collected and proved at an expense of over £200. So great has been the demand that I have decided to reduce price **50 per cent.**

I hold upwards of 600 Testimonials of their worth, in many instances have been favoured with 30 to 40 repeated orders—a fact which in itself proves the high appreciation they have received.

The undermentioned, abstracted from my detailed printed list of 400 (which I will post free to any Chemist on application), are in most general demand, and certain to create a lucrative business. Old Stagers will find them an improvement, and to New Beginners they are a perfect boon, saving time and waste of material through repeated failures.

I will send post free any 25 for 10s., 12 for 5s., 6 for 2s. 8d., and warrant them to please the most sceptical.

**CORN CURE.** Improved form of salicylic remedy. Contains iodine. No colloid. Does not readily dry up. Warranted best sold.

**DIGESTIVE SYRUP.** Concentrated vegetable preparation for relief and cure of Dyspepsia. Vastly superior to Mother Siegel, and better taking.

**EMBROCATIO ALB.** (Like Elliman's). Inseparable white emulsion. Rubs in beautifully. Equally good for man and beast. Costs under 8d. per lb.

**GLYCERINE CREAM.** Most elegant toilet preparation ever sold. Superior to Beetham's. Renders the skin white and soft as velvet. Delicate perfume. Delicious feeling after use. Once bought, always wanted.

**HERBALADE.** Concentrated extract (like Mason's) for making Herb Ale, &c. Fine aroma, brilliant and sparkling. 3-oz. bottles cost about 3d.

**HOP TONIC.** Superior to the American in appearance and medicinal qualities. Rich in colour. Permanently brilliant. Costs under 1s. per lb.

**OCCASIONAL PILLS** (for Ladies). May be relied on, invariably having desired action—pronounced better than Welch's or any other female pills.

**PHYSICIAN'S PRESCRIPTION for SPERMATORRHEA,** and similar diseases. Over 1,000 cases have been cured by this. Original cost 5 guineas. Contains mixture and two kinds of pills.

**QUININE and IRON TONIC.** Quite equals Pepper's, keeps unchanged any length of time. Valuable remedy, gives tone and vigour to the system.

**TOOTHACHE CURE.** Entirely new remedy, gives instant ease, nearly infallible, simple, and not injurious to other teeth. No danger.

**RHEUMATIC EMBROCATION.** Best and most rapidly efficacious liniment ever made, equals St. Jacobs Oil in killing pain. Costs 7d. per lb.

**TEMPTING OILS FOR RATS.** A Yorkshireman's recipe, by which he gained a living for years, hundreds of rats have been poisoned after its use. Simple and sure.

**PIG POWDERS.** Cure coughs, wheezing, sore feet, and all diseases pigs are liable to. Keep in health and create porcine happiness.

**TIC SPECIFIC.** May be truly styled the magic remedy, its action being so rapid, has frequently cured when Tonga and Tikheel failed.

**JUBILEE SAUCE.** The perfection of relishes. Quite a departure from other sauces. Piquante and appetising. Costs 6d. per pint.

**SPRING BLOSSOMS.** The most lovely, enchanting *recherche* perfume ever made, similar to Cherry Blossom. Costs 8s. per pint.

**BLOOD CLEANSER.** Quite as efficacious as Clarke's or any advertised remedy. No fancy price need be asked. Sold with confidence.

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December, 1887.

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Bratby and Hinchliffe  
Bush, W. J., and Co. (Foam  
Producer, &c.)  
Favarger, H.  
Fevre, J.  
Gueret Freres  
Tyler, Hayward, and Co.**AGENCY**Haydon's Chemists Defence  
Agency**AGENCIES ABROAD**Australasian Drug Co.  
Campbell, N. S., and Co.  
Cocking (Japan)  
Evans, Sons and Mason (Lim.)  
(Canada)  
Fulton (Melbourne)  
Fongera (New York)  
Kempthorne (New Zealand)  
Macnaughton, F. J.  
Peake, Allen and Co.  
Roberts (Paris, &c.)  
Rocke (Melbourne)  
Sharland & Co. (Auckland N.Z.)  
Soul, W. H., and Co.**ALKALOIDS**Howards and Sons (Cinchona)  
Smith, T. and H.**ALMILAJ**

Merca, L.

**ANALYSIS**

Rait, G. L., F.R.C.S.

**AMMONIA**May and Baker  
White, A., and Sons**APPARATUS**Bracher & Co. (Automatic  
distilling)  
Brinjes and Goodwin  
Clarke, S. (Food Warmer)  
May, Roberts (Water-bath)  
Orme (Scientific)  
Perken, Son and Rayment  
(Scientific)  
Rothenmel, Paul (Vinegar)**BANDAGES**Bailey, W. H., and Son  
Bole Hall Mill Co.  
Robinson and Sons  
Schutze, F., & Co.**BATH GLOVES**Maw, Son and Thompson  
Pattison, G.  
Seabury and Johnson  
Solpott Bros.**BOXES**Austin and Co. (Cardboard)  
Irvin and Sellers  
Metz, Paul (Willow)  
Noakes, B., & Co.  
Self-Opening Tin Box Co.**BICARB. SODA**Gaskell, Deacon and Co.  
Howards & Sons  
May and Baker**BEESWAX & HONEY**

Bowdler and Co.

**BISMUTH, PREP.**Burrhoughs, Wellcome and Co.  
Hearon, Squire and Francis  
Hewlett and Sons  
Howards and Sons  
May and Baker  
Evmes and Co.  
White, Alfred and Sons**BOTANIC BEER**

Newball and Mason

**BRUSHES**Bailey, C. J., and Co. (Toile  
India Rubber)  
Duke and Co.  
Goodall, H. A. and Co. (Tooth)  
Lee Bros.  
Sutton, O., and Co. (Tooth)**BLOOD MIXTURE**Beezler, J., and Co.  
Lincoln and Midland Counties  
Drug Co.**BOTTLES**Barnett and Foster  
Currett, E. H.  
Bratby and Hinchliffe  
Breth's (Lim)  
Brooks, Peel (Perfumer)  
Hearn, E. A., and Co.  
Janes and Co.  
Kilner Bros.  
Laird, J., and Co.  
Maw, Son and Thompson  
Potts  
Toozood**BUTTER COLR. &c.**Butcher, W., and Son (Mari-  
goldine)  
Johnsen and Jorgensen  
Oilsfeld, Pattison and Co.  
Timinshaw and Hayward**CAMPHOR**Howards and Sons  
Keene and Ashwell (Homoeo-  
May and Baker  
Maw, Son and Thompson**CARMINE**Bush, W. J., and Co.  
Sellers**CAPSULES**Denonail, J. (Medicinal)  
Duncan, Flockhart and Co.  
(Cascara Sagrada)  
Durant, T., and Co.  
Evans, Sons and Co.  
Hooper, B., and Co.  
Maw, Son and Thompson**DITTO (METALLIC)**Betts and Co.  
McLinn, C. (Machine)**CASC. SAGRADA**Duncan, Flockhart and Co.  
Squire and Sons  
Evans, Sons and Co.**CATALOGUE**Evans, Sons and Co. (Price  
Current)Maw, S., Son and Thompson  
(Price Current)Newbery, F., and Sons  
Sanger and Son  
Thompson, Millard and Co.**CHEMICALS**Bennett and Jenner  
Boehringer, C. F., & Co.  
Bush, W., Son and Co.  
Dunn and Co.  
Fletcher, Fletcher & Stevenson  
Gaskell, Deacon and Co. Bi-  
carbonate of Soda)  
Goodall, Backhouse and Co.  
Greeth and Co.  
Hill, A. S., and Son  
Howards and Sons (Therm.)  
Kuhn, B.  
Levermore, Ang., and Co.  
May and Baker  
Morris, Callard, and Co.  
Oscar Andree and Co.  
Prunk, Davis and Co.  
Stern, G. and G. (Pumiline)  
Sumner, R., and Co.  
Smith, T. and H., and Co.  
White, A., and Sons  
Zimmermann, A. and M.**CHALK PRECIP.**Dunn and Co.  
Levermore, Ang., and Co.  
White, A., and Sons**CHEST PROTECTRS**Maw, Son and Thompson  
Wood, V.**CHL. OF POTASH**(Compressed Tablets)  
Burrhoughs, Wellcome and Co.  
Hooper, B., and Co.**CHLORIDE OF LIME**Government Sanitary Co.  
National Chemical Co.  
New Carbolic Sanitary Co., Ltd.**CHLOR. OF GOLD**Oscar Andree and Co.  
Rowland, L.**CHLORODYNE**Blyton-Bage and Co. (Twem-  
low's)  
Burrhoughs, Wellcome and Co.  
Davenport, J. Brown and Co.  
Freeman, R.  
Thomas, Wakeham and Co.  
(Dr. Henry's)  
Towle, A. L.**CHLOROFORM, &c.**Duncan, Flockhart  
Macfarlan, J. F.  
Smith, T. and H.  
Zimmermann**CIGARETTES**Evans, Sons and Co.  
French Hygienic Co. (Coca)  
CITRIC ACIDHassall's (Phospho)  
Nascio, Aveline and Co.  
COCAINE HYDRO.Houle, A.  
Howards and Sons  
McKesson and Robbins**COCA WINE**Armbrrecht, Nelson and Co.  
Evans, Sons and Co.  
French Hygienic Co. (Cigar-  
ettes and Tobacco)**COCOA & CHOCOLTE**Cadbury  
De Jong's Pure Soluble Cocoa  
ery (Maitre)  
Van Houten's Cocoa**COD-LIVER OIL**Allen and Hanbury's  
Brockle and Howill  
Burgoyne (Pepteleina)  
Burrhoughs, Wellcome  
Dunsford, H.  
Evans, Sons and Co.  
Hill, A. S., and Son  
Loring and Co.  
Smith, T. J.  
Southall Bros. and Barclay  
Woolley, Sons and Co.  
Wright, Layman and Umney**COFFEE**

Symington Co. (Coffee Es-)

**CLLPSIBLE TUBES**Betts and Co.  
Brooks, H., Peel and Co.**CMRPSD MDCNS**Allen and Hanbury's  
Burrhoughs, Wellcome and Co.  
Hooper, B., and Co.**CONFECTIONERY**Bage, Blyton and Co.  
Gibson, R., and Sons  
Kerfoot, T.  
Warrick Brothers**JOHP. ESSENCE**

Potter and Clarke

**CORKS**Benito, Remus and Co.  
Bishop and Warden (Socks)**CORN CURES**Maw, Son and Thompson  
Robinson H.  
Solpott Bros.  
Thompson, M. F.**CONCENTD. LIQS.**Evans, Sons and Co.  
Fletcher, Fletcher & Stevenson  
Keith, B., and Co.  
Thompson, H. A., and Son**COTTON WOOL**Haynes G., & Co. (Absorbent)  
Maw, Son and Thompson  
Robinson and Sons (Absorbent)  
Sanger, J., and Sons  
Seabury and Johnson**DENTIFRICES**Du Boyer, Marie  
Jewsbury and Sons  
Newbery and Sons  
Sinton, O., and Co.  
Thompson and Cappe  
Woods, W. (Arecia Nut)**DISINFECTANTS**Government Sanitary Co.  
Hamilton and Co.  
Hopkinson and Co.  
Hornby, A.  
Hygienic Paper Co.  
Jeyes  
National Chemical Co.  
New Carbolic Sanitary Co., Ltd.  
Rosamarine Manufacturing Co.  
Sanitas Co.**DISINTEGRATORS**Carter, J. H.  
Hardy Patent Pick Co., Lim.**DOG MEDICINES**

Spratts (Patent)

**DRUGGISTS' SUN.**Ayrton and Saunders  
Bishop & Warden (Cork Socks)  
Evans, Lescner and Wau  
(Hawley's Counter Admire)  
Evans, Sons, and Co. (Savara)  
Hill, A. S., and Son  
Idris and Co.  
Lynch and Co.  
May, Roberts and Co.  
Newbery, F., and Co.  
Pattison, G.  
Sanger and Sons  
Schutze and Co.  
Thompson, Millard and Co.  
Toozood, W.  
Wood, Vincent**DRUMS, CANS, &c.**

Noakes and Co.

**EAU DE COLOGNE**

Farina, J. M.

**EFFERVESCENT**Allen and Hanbury's (Saline)  
Bishop, A., and Sons  
Fritz and Co.**ELECTRIC APPAR.**Colthurst & Harding (Electric  
Light Oil)  
Darton, F., and Co.  
Orme and Co.**EMBROCATION**Barrett, Joshua  
Clar, W.  
Elliman, Sons and Co.**ENAMEL**

Donald Mack, herson &amp; Co.

**ENEMAS**Ingram and Son  
Lynch and Co.  
Maw, Son and Thompson  
Morgan and Son  
Schutze, F., and Co.**ENGRAVERS**

Barker, W., and Son

**ESSENCES, FRUIT****AND SOLUBLE**Bratby and Hinchliffe  
Burgoyne, Burbridge and Co.  
Bush, W. J., and Co.  
Bush, W. J., and Co.  
Cammock, J.  
Goodall, Backhouse and Co.  
Hay, W.  
Idris and Co.  
Loring and Co.  
May and Baker  
Oldfield, Pattison and Co.  
Stevenson and Howell  
Tyner, F. (Anchovie)  
Vogt, G.  
Woolley, Sons and Co.**ESSENTIAL OILS**Bush, W., Son and Co.  
Bush, W. J. (Lemon &c.  
Cocking (Japan Peppermint)  
Cammock, J.  
Dunsford, H.  
Evans, Sons and Co.  
May and Baker  
Nascio, Aveline and Co.  
Rocke, Tompitt (Eucalyptus)  
Sozio and Andrioli  
Stallman and Rutton  
Stevens and Howell  
Synes and Co.  
Todd, A. M.  
Vogt, G.  
Warrick Brothers  
Wright, Layman and Umney**ETHER**Duncan, Flockhart and Co.  
(Chloric)  
Howards and Son  
May and Baker  
Robbins  
White, A., and Sons**EUCALINUM**Rocke, Tompitt and Co. (Anti-  
septic Poultice and Vinegar)**EUCALYPTUS OIL**Downie, B. I. P. Co.  
Fletcher, Fletcher & Stevenson**EXTRACT, MEAT**Australasian Meat Co.  
Brand and Co.  
Lieber Co.  
Viking Food and Essence Co.**EXTRACTS, FLUID**Allen and Hanbury's  
Burgoyne, Burbridge and Co.  
Evans, Sons & Co.  
Fletcher, Fletcher & Stevenson  
Hearon, Squire and Francis  
Oldfield, Pattison and Co.**FEEDING BOTTS.**Hearn, E. A., and Co.  
Kilner Bros.  
Maw, Son and Thompson  
May Roberts and Co.  
Rocke, Keen and Co.  
Thompson, Millard  
Toozood, W.**FLY PAPERS**Ford, Shapland and Co.  
Wilson, S.**FILTERING**Eoulton and Co.  
Mawson Swan, and Weddell  
Slack & Brown  
Silticet Crbn Filtr Co.**FOAM PRODUCERS**

Bush, W. J., and Co.

**FOOD WARMERS**Clarke, S.  
Dunsford**FOOD (Infants & Invalids)**Allen and Hanbury's  
Benger's (Pancreatic)  
Brand and Co.  
Burrhoughs, Wellcome (Pepton-  
lang)Dahl's Dispersa Cakes  
Goodall, Backhouse and Co.  
Hearon, Squire (Malted)  
King, F. & Co. (Soups)  
Lazenor, E., and Son  
Liebig Co.  
Maclean and Son  
Mottershead and Co. (Benger's  
Food)Nestle, H.  
Ridge's, Dr., Food  
Spring and Co. (Ref.)  
Van Abbott (Diabetic)**FORMULE**

Brooks, T.

**GINGER ALE**Adams, B.  
Kinmond and Co.  
Hay, W. (Essence)  
Mills, R. M.**GLYCERINE**Pink  
Martindale, W. (Nitro-Gly-  
cerine Tablets)  
Maw, Son and Thompson  
Price's Candle Co.**GRANULAR PREP.**Bishop, A., and Sons  
Burrhoughs, Wellcome and Co.  
Bush, W., and Co.  
Evans, Sons and Co.  
Hearon, Squire and Francis  
Hill, A. S., and Son  
Kerfoot, T.  
Wright, Layman and Umney**GUMS**

Pink (Arabi, &amp;c.)

**GUTTAPERCHA**

Duncan, Flockhart

**HAIR PREP.**Bates, F. W., (Frizzette)  
Brodie, J. (Imperial Hair Dye)  
Capper, W. B. (Crimdore,  
Cheesbrough Mfg. Co.  
French Hygienic Co.)**HERB BEER EXTS.**Adams, B.  
Newball and Mason  
Oldfield, Pattison and Co.  
Potter and Clarke**HERBALISTS**Adams, B.  
Newball & Mason (Ext. of Herbs)  
Potter and Clarke  
Wilkinson, A., and Sons (Com-  
pressed Hops)**HOMOEOPATHIC**Epps and Co.  
Keene and Ashwell  
Leath and Rose  
Thompson and Capper  
Watts, J. J., & Co.**HOPS**Wilkinson, A., and Sons (Com-  
pressed)**HOP ALE ESSENCE**

Hay, W.

**HOSPITALS**

London Homoeopathic

**HYPHOSPHITES**Duncan, Flockhart and Co.  
Dunn and Co.  
Fellows  
Fletcher, Fletcher & Stevenson  
Symes & Co.  
Swann, H. H. (Dr. Churchill's)  
Yeatman, F. J.**INK (See MARKING.)**Bewley and Draper  
Duncan, Flockhart**KETCHUP**

Tyner, P.

**INHALERS**Godfrey and Cooke  
Maw, Son and Thompson  
Toozood, W.**INSECTICIDES**Keating, T.  
Greiff, R. W., and Co.  
Sanford  
Steiner and Co.  
Vogt, G.



**LAR.**  
Ewen.

**LAMS, LIGHTS, &c.**  
Clark Samuel ("Fairy")

**LEES**  
Fitch & Nottingham  
Potter and Clarke

**LIM JUICE**  
Idris & Co.  
Kern and Son

**LINTED**  
Idris & Co.  
Mum, G. S.

**LIN**  
Liver & Lint Co.  
Mawson and Thompson  
Robinson and Sons  
Seaby and Johnson

**LOZNGES**  
Allen and Hanbury  
Blythe & Co. (Medicate)  
Evan's Sons and Co.  
Gibbs, R. and Sons (Manfra.)  
Hill & Son  
Horn A. (Hydrochlorate of)  
Kerr, T.  
Lorier and Co.  
Mar dale, W. (Nitro-Glycerine Tablets)  
Walker Brothers (Heliotrope Pellets)

**LOCANS**  
Mawson and Thompson  
Mayborts and Co.  
San and Sons

**MACHINERY**  
Bris and Goodwin  
Car, J. H.  
Hart Patent Pick Co., Lim.  
Mell Co. (Capulizer)  
Wear and Pfeiderer

**MAHESIA**  
Bair, E. R. (Citrate)  
Bispe, A., and Sons  
By, Son and Co.  
Dibford  
Hey, T. and W. (Calcinec)  
Hill and Sons, A. S.  
Kelot, T. (Citrate)  
Lorier and Co. (Citrate)  
Oscar Andree and Co.

**MAT EXT., ETC**  
Allen and Hanbury  
Burroughs, Wellcome and Co.  
Hill & Son ("Ker")  
Horn, Squire and Francis  
Lerner and Co.  
Paton's Chemical Manufacturing Co.

**MENTHOL**  
A. Menthol Depot, A. W.  
Arley, Proprietor  
Cic Menthol Co.  
Goring and Co.  
Hill & Wilson and Co.  
M. Son and Thompson  
Sley, A. W.  
T. A. M. (Crystall Oil of)  
Peppermint

**MERKING INKS**  
Ber, G., and Co. (Crimson)  
C. G. G.  
Brisson, J.

**MEASURES**  
Eka, J. J.

**MEDICINE CHSTS**  
I. Son and Hewitt (Veterin.)  
I. and Sons

**MERCURIALS**  
Th, W., and Co.  
Hards and Sons  
I. and Baker

**METHYLATED**  
**PIRITS**  
Arongh, J.  
Arvey, J. & W., and Co.  
Lee and Co.  
Cenair, J. & D.  
Phillips, G., and Co.

**METHYLENE**  
Bobbins, J., and Co.

**MICROSCOPES**  
arton, F., and Co.  
arken, Son and Rayment

**MILK**  
Bottle, H. ("Condensed")  
Biss Milk Co.

**MIXING MCHNRY**  
acher and Co.  
rings and Goodwin  
urroughs, Wellcome and Co.  
arter, J. H.  
erner and Pfeiderer

**MORPHIA**  
Macfarlan, J. F., and Co.  
Smith, T. and H.

**MUSTARD**  
Benner, L. R. (Oil)  
Johnson, J. H. and S. (Ess. Oil)

**NEPENTHE**  
Ferris and Co.

**NIGHT LIGHTS, &c**  
Clarke, S.

**OILS, PAINTS, &c**  
Colthurst and Harding  
Donald Macpherson & Co.  
Gregory, W. (Devonshire Oils)  
Prunk, Davis and Co.  
River Head Oil Mills Co.  
Vogeler, The Charles A., Co.  
(St. Jacob's Oil)

**ONIMENT BASES**  
Cheesebrough (Vaseline)  
Grindley (Petroleum Jelly)  
Wilkinson & Co.

**OPTICIANS**  
Darton, F., and Co.  
Perken, Son and Rayment  
Raphael, J., and Co.

**PAPAIN FINKLER**  
Kuhn, B.

**PARALDEHYDE**  
Zimmermann, A. and M.

**PATENT AGENTS**  
Horn and Son

**PATENT MEDCNS**  
Ambrecht, Nelson & Co. (Cocor Wine)  
Atkinson (Infant Preserv)  
Barrett, Joshua  
Beecham (Pills)  
Beedler, J., and Co.  
Crouch, F. B. (Waters)  
Dahl's Dispersia Cakes  
Edwards and Son  
Evans, Leacher (Hawley)  
Couter Adjuncts, Coats  
Pills, &c.  
Fennell's (Powders)  
Holloway (Pills and Oint.)  
Hup Bitters Co. (Lim.)  
Kemp, W. H. (Whoopotine)  
Lalor (Phosphodyne, &c.)  
Lincoln (Clarke's Mix.)  
Coch and Co.  
May, Roberts and Co.  
Mercs, L.  
Morton, H.  
Munday, J. (Injection Day)  
Newbery and Sons  
North Medicine Co.  
Perry Davis's Pain Killer  
Quinine Bitters Manufacturing Co., Lim.  
Ratti and Co. (Meuphrosine)  
Richards, J.  
Roberts (Foreign)  
Singleton's Eye Ointment  
Thompson, Millard and Co.  
Vogeler, The Charles A., Co.

**PERFUMERY, FANCY SOAPS.**  
Atkinson, J. and Co.  
Atkinson, J. and Co.  
Biggleston, E. R.  
Burroughs, Wellcome and Co.  
Cheesebrough Manufacturing Co.  
Crown Perfumery Co.  
Du Boyer, Marie  
North Medicine Co.  
Ewen (Soaps)  
Hall's Wood Violet  
Greensill, T. S., and Son  
(Mons Bouquet)  
Mack, H.  
Mack, Son and Thompson  
Mount Carmel Soap Co.  
Newbery and Sons  
Pear's Soap (Dirty Boy)  
Royal Perfumery Co.  
Sozio and Andrioli  
Sainsbury, S. (Lav. W...)  
Stern, G. and G. (Pumiline)  
Treat, R. C.  
Warrick Brothers  
West, T. (Okell's Mone)  
Woolley, Son and Co. (Powder)  
Yardley & Co.

**PEPPERMIT**  
Todd A. M. (Crystall White Oil of Peppermint)

**PEPSINE, &c.**  
Burroughs, Wellcome and Co.  
Fletcher, Fletcher & Stevenson  
Greiff, R. W. and Co.  
Newbery (Ing. vru.)  
Ware & Co. (Inglaviv)  
Zimmermann

**PEPTONES**  
Denaeys's Peptone Co., Lim.

**PEROX. OF HYDR.**  
Dunn and Co.  
Robbins and Co.

**PHARM. PREPS.**  
Allen and Hanbury  
Barron, Squire and Co.  
Benger's  
Burgoyne, Burdidge  
Burroughs, Wellcome Various  
Duncan, Flockhart  
Ferris and Co.  
Fletcher (Lark for Syrups)  
Greiff, R. W., and Co.  
Hearon, Squire and Francis  
Hewlett and Son  
Hill, A. S., and Son  
Hooper, B., and Co.  
Howards and Sons  
Keith (Conc. Tinctura)  
Kuhn, B.  
May & Baker (Phenacetine)  
Martindale (Nitroglycerine)  
Sellers, J.  
Southall Bros  
Tvoke & King  
White, Alfred and Sons  
Woolley, Son  
Wyleys (Various)

**PHOTOGRAPHIC**  
Botwright and Grey  
Howards and Son (Chemicals)  
Perken, Son and Rayment  
Marion and Co.  
May and Baker  
Oscar Andree and Co.  
White, Alfred and Sons

**PLASTERS**  
Burroughs, Wellcome and Co.  
Mather, W.  
Maw, Son and Thompson  
Quilliam, J., & Co.  
St. Dalmaz, A. De  
Seaby and Johnson  
Smith, W. F.  
Thompson, M. F.

**PILLS (Coated, &c.)**  
Allen and Hanbury  
Beecham, Thomas  
Evans, Son and Co.  
Hearon, Squire and Francis  
Hill, A. S., and Sons  
Hooper, Dr.  
Lorimer and Co.  
McKesson and Robbins Ovoid-capsuled  
Newbery and Sons  
Ranger, J., and Sons  
Smith, W. F.  
Southall Bros. and Barclay  
Swann, H. H.  
Ware, W. R. (Coated)  
Wilkinson & Co.  
Wyleys and Co.

**PILL MACHINES**  
Maw, Son and Thompson  
Pinder, J. W.  
Robertson, J. and Co. (Coating)  
Toogood, W. (Coater)

**PINE PRODUCTS**  
Burroughs, Wellcome and Co.  
Mack, J. Joseph  
Stern, G. and G.

**PODOPHYLLIN, &c**  
Keith, B., and Co.  
Smith, T. and H.

**PORCELAIN GDS.**  
Poths, H., and Co.  
Toogood (E.c. Pots, regiat.)

**POLISHING**  
Baumgartner (La Brillant)  
Bradley, Bourdais (Albatum)  
Clark, W.  
Oakley, John, and Sons

**PRINTING**  
Bell and Stone  
Bowers Bros.  
Facsimile Apparatus Co.  
Ford, Shapland and Co.  
Silver, Jack, H.  
Townsend, J. (Exeter)

**PUMILINE**  
Stern, G. and G.

**QUININE SALTS**  
Poehrigger and Sohne  
Heiglers, F. W., & Co.  
Howards and Sons  
Kuhn, B.  
Oscar Andree and Co.  
Zimmermann

**RENNET**  
Benger's (Essence of)  
Duncan, Flockhart and Co.  
Johnsen and Jorgensen  
Oldfield, Pattinson and Co.

**SACCHARIN**  
Allen and Hanbury  
Burroughs, Wellcome and Co.

**SALICINE**  
Macfarlan and Co.  
Smith, T. and H., and Co.

**SALOL**  
Kuhn, B.

**SAUCES, PICKLES**  
Birmingham Vinegar Brewery Co.  
Goodall, Backhouse and Co.  
Lassaby (Harvey's)  
Tyrer, F.

**SCHOOLS OF PHARMACY, HOSPITALS, &c.**  
Central School of Chemistry and Pharmacy  
Edinburgh Classes  
Liverpool School  
London Homeopathic and Medical School  
Manchester College  
South London School of Pharmacy, Lim.  
The School of Pharmacy  
Tully, J.  
Westminster College

**SEALING WAX**  
Fisher, Clark and Co.  
Waters, J., and Sons

**SELTZOGENES**  
Fevre, T.  
Idis and Co.  
May, Roberts and Co.

**SHAVING**  
Dukas and Co. (Brushes)

**SOAP**  
Maw, S., Son and Thompson  
Pear's Soap  
Southall Bros. and Barclay  
Stern, G. and G. (Pumiline)  
Toilet and Sanitary)  
Yardley and Co.

**SHEEP DIP**  
Bigg, T.  
Cooper, W., and Nephews  
Grindley and Co.  
Tomlinson and Hayward

**SHOP FITTERS**  
Bowling and Gowler  
Bygrave, J. and W.  
Corran, J. B.  
Howlett, S.  
Natali, E. (Show Cases)  
Yates, W. S.

**SOZOIODOLO**  
Trommsdorff, H.

**SPECTACLES**  
Botwright and Grey  
Darton, F., and Co.  
Raphael and Co.

**SPIRIT**  
Boord and Son  
Burrough (Pure & Metbyl.)  
Harvey, J. W., and Co.  
Jones and Mason (Methyl.)  
Macnair, J. & D.  
Phillips and Co.  
Smith, Stephen and Co.

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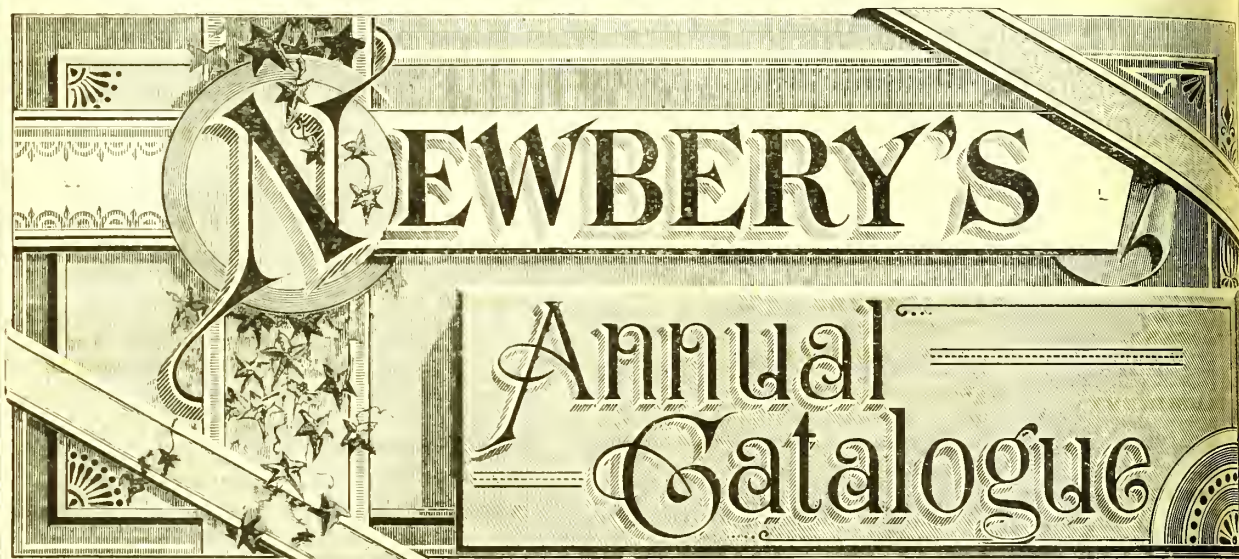
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Goodall, Backhouse, and Co.  
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Robinson, B. (Orange)

**WOOD WOOL**  
Sanitary Wood Wool Co.



To Druggists generally.

Preliminary Notice.



1 and 3 KING EDWARD STREET,

LONDON, E.C., August, 1888.



WE desire to intimate that the preparation of our Catalogue for the coming year, 1889--the ninth annual issue--has already been commenced.

Copy will be placed in the printer's hands in good time for the Work to be in circulation early in 1889.

This notice is issued thus early in order that Manufacturers of goods imported and sold by us may forward timely notice of intended alterations and additions.

NEWBERRY'S CATALOGUE is widely circulated, and, therefore, well known in all parts of the Commercial World. The current year's issue comprises more than 500 pages of information of use to Druggists, Medicine Vendors, &c., in addition to the Medicine Act and observations thereon, whilst the corrections, additions, &c., as compared with the former issue, are upwards of a thousand.

**F. NEWBERRY & SONS.**

Agents for British and Foreign Medicines and Proprietary Goods.

**ESTABLISHED A.D. 1746.**



# WM. R. WARNER & CO.

PHARMACEUTICAL CHEMISTS,

DEPOT:—F. NEWBERY & SONS,

1 & 3 KING EDWARD STREET, NEWGATE STREET, LONDON, E.C.

This abridged Prospectus of the Preparations of W. R. Warner & Co., which are now in general use by Practitioners in all parts of the world, is, of course, only subsidiary to the complete list, which will be sent post free (on request) to Chemists and Merchants in any country.

## BROMO-SODA

(Registered.)

Bromide of Sodium with Caffeine, in the Granular form. Very carefully and evenly made. Invaluable in Sleeplessness, Brain Fatigue arising from overwork, &c. *The Lancet* (Aug. 6th, 1887, p. 265) states that "the sodium compound does, in fact, agree better (than the potassium salt) with some stomachs."

## PARVULES.

A new class of medicines (minute pills) designed for the administration of small doses for frequent repetition in cases of children and adults. It is claimed by some practitioners that small doses given at short intervals exert a more salutary effect. The elegance and efficiency of Parvules leave nothing to be desired. For children, one three times a day is the minimum dose.



Photographic Wood Cut of an assorted "Stand" of Counter Vases of pharmacopoeial Pills or Granules (W. R. Warner & Co.). "Globe" or "Square Shouldered." These Vases are fitted with hand-painted, gold bordered Labels, of which those named are usually in stock. Height of Smaller Vase to top of Stopper, about 11 inches. DESIGNS REGISTERED.

St. Columb, Cornwall,  
Jan. 10th, 1885.

Messrs. F. NEWBERY & SONS,

GENTLEMEN,—I was much pleased with the Vases and Pills you sent me, and wish to remit. Will you kindly send me, etc.?

Yours truly,

(Signed) E. GRIFFITH, Chemist.

## SUGAR-COATED PILLS.

Unequalled in their medicinal properties or in SOLUBILITY, the best ingredients being invariably employed. W. R. Warner & Co. claim the art of Sugar-Coating, which, while ensuring the adequate permanency of the coating, avoids the drying of the enclosed mass so hard as to render it *insoluble* and *inert*. Each pill will produce the effects expected, and an experience of nearly thirty years, coupled with unremitting care and study, have enabled the manufacturers to achieve results otherwise unattainable.

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The essential principle of the gizzard, and bearing the same relation to poultry that pepsin does to the higher animals. A powerful nitrogenous radical was (about 1850) discovered in the gizzard, which was shown by experiment to possess many of the properties of pepsin. Where the latter refuses to act, and where, in severe cases, it has even been rejected by the stomach, Ingluvine has effected relief rapidly and with ease. (Per oz. bottle, 4s. 6d.)

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Established

**BISHOP'S**

1857.



# Granular Effervescent Preparations.

## SPECIAL LIST.

Antipyrin (5 grs.)... ..	In each drachm	*Bismuth and Iron ... ..	1 each drachm
Bismuth and Pepsine ... ..	"	(4 grs.) (4 grs.) ... ..	"
(4 grs.) (4 grs.) ... ..	"	*Bismuth, Iron, and Strychnia	"
Bismuth, Pepsine, and Quinine	"	(4 grs.) (4 grs.) ( $\frac{1}{60}$ gr.)	"
(4 grs.) (4 grs.) (1 gr.)	"	*Iron and Arsenic ... ..	"
*Bismuth, Pepsine, and Steel	"	(4 grs.) 3 mins. (Fowler's Solution)	"
(4 grs.) (4 grs.) (4 grs.)	"	*Iron and Pepsine ... ..	"
Bismuth, Pepsine, and Strychnia	"	(4 grs.) (4 grs.) ... ..	"
(4 grs.) (4 grs.) ( $\frac{1}{60}$ gr.)	"	*Iron, Quinine, and Strychnia	"
*Bismuth, Iron, and Quinine...	"	*4 grs.) (1 gr.) ( $\frac{1}{60}$ gr.)	"
(4 grs.) (4 grs.) (1 gr.) ...	"	Iron, Quinine, and Pepsine...	"
		(4 grs.) (1 gr.) (4 grs.) ...	"

\* The Ammonio-Citrate of Iron is used in these preparations.

They are supplied in any quantity, from 2 oz. upwards.



Note the name, BISHOP, on the Seal. AND the Registered Trade Mark on the Label.



ALFRED BISHOP & SONS, MANUFACTURING CHEMISTS, LONDON, E.  
"Speck's Fields," 48 Spelman Street,

# FLATNESS OF TASTE

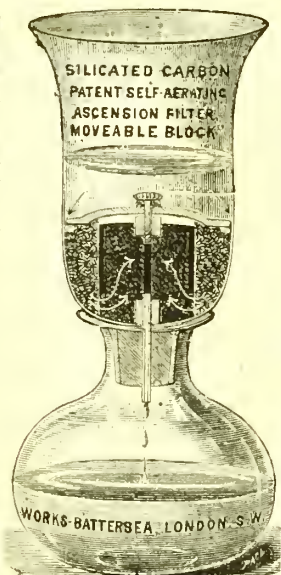
SO COMMON IN FILTERED WATER,

## OBVIATED BY USING SILICATED CARBON FILTERS AERATED

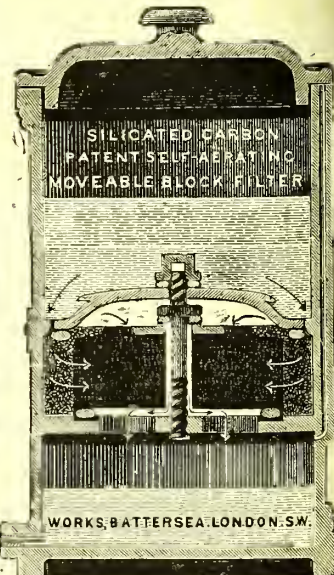
By means of which the water is Aerated and Filtered simultaneously, rendering it, even after boiling, Pure, Bright, and Palatable.

The Silicated Carbon Block can be Instantly Removed, leaving the whole of the Filter Open for Inspection and Cleansing.

LIBERAL DISCOUNT TO THE TRADE.



Glass Table Filters.



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*Will Pulverise, Granulate, or Shred almost any Mineral, Vegetable, or Animal Substance.*

## NEARLY 1,100 IN USE

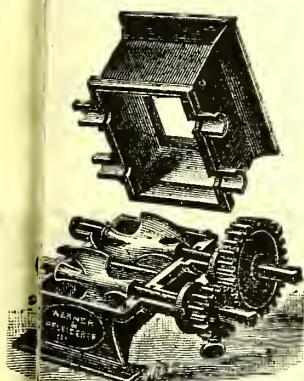
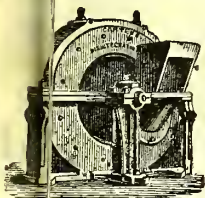
IN ALL PARTS OF THE WORLD.

For Grinding Sugar, Bark, Linseed, Ginger, Pepper, Spices, Salt, &c., this Machine is invaluable.  
Made in 9 Sizes. Illustrated Catalogue may be obtained on application.

Samples of ANY Material will be Ground free of charge.

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Telegraphic Address—Milling London.



See 3, Type I, for 1-lb. Mass.

## THE "UNIVERSAL" KNEADING AND MIXING MACHINE FOR PILL MASS MAKING,

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general Mixing and Incorporating.

REPLACES WITH ADVANTAGE ALL OTHER APPLIANCES FOR THESE PURPOSES.

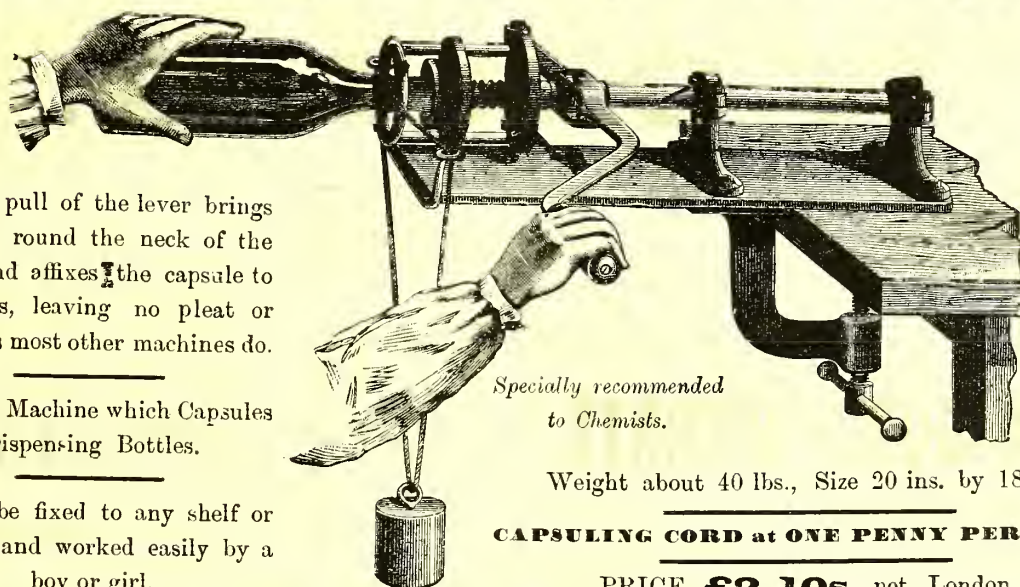
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# CAPSULING MACHINE.



A single pull of the lever brings the cord round the neck of the bottle and affixes the capsule to the glass, leaving no pleat or crease, as most other machines do.

The only Machine which Capsules Dispensing Bottles.

Can be fixed to any shelf or counter and worked easily by a boy or girl.

*Specially recommended  
to Chemists.*

Weight about 40 lbs., Size 20 ins. by 18 ins.

CAPSULING CORD at ONE PENNY PER YARD.

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This well-known Brand has had a steady and increasing sale for nearly a quarter of a century, and for many years past T. KERFOOT has been the

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## CITRATE OF MAGNESIA

IN THE

## WORLD.

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Citrate of Magnesia, introduced in the first instance as a medicine, is now largely consumed as a beverage.

**KERFOOT'S CITRATE** has no equal in point of flavour.

Buy our No. 1 quality—your customers will always pay a remunerative price after once using it.



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Is offered as one of the best articles of the kind. It is prepared with the greatest care by skilled operators in specially-constructed drying chambers, and will keep well in all climates.

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Pice in 8-oz. Bottles, Glass Stoppered, nicely labelled, without maker's name,

**8/- PER DOZEN. Usual Terms.**

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A SPLENDID SALINE, BEAUTIFULLY LABELLED IN COLOURS,

8-oz. size, **8/- PER DOZEN. Usual Terms.**

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THE ABOVE ARE ALSO SUPPLIED IN BULK.

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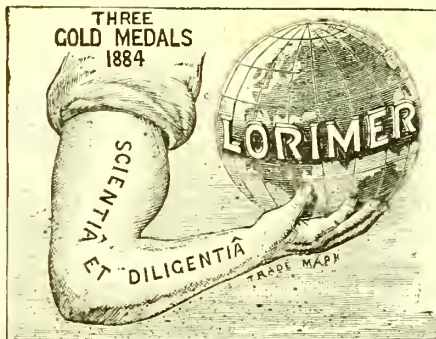
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Manufacturing Pharmaceutical Chemist,  
**MEDLOCK VALE WORKS, BERRY STREET,**  
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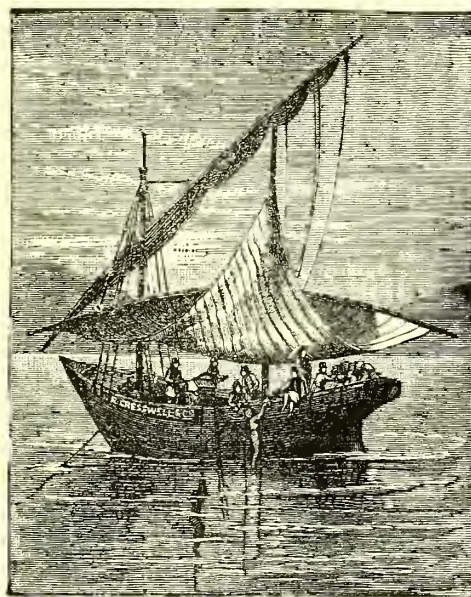
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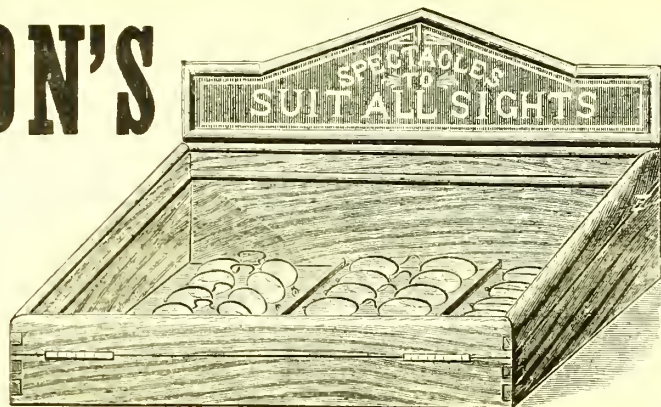


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CHEMISTS commencing the Spectacle business will find these Show Cases arranged with an assortment of Spectacles and Folders of all sights, to meet the requirements of purchasers. The quality and quantity may be varied to suit any class of trade at customer's wish. The Spectacle Show Case is of Solid Polished Mahogany, well made and finished, to stand any climate. Large Coloured Show Cards, and Instructions for Testing Sight, with Table of Dioptric Measurements, sent with each Case.

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OUR £2 2s. SIZE, COMPLETE, CONTAINS 3 DOZEN SPECTACLES:—

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Our £10 10s. Case is Specially Suited for Export.

LARGER ASSORTMENT OF SUPERIOR PEBBLE SPECTACLES AND FOLDERS, &c. ... 21 0 0

Send for fully Illustrated Catalogue and Descriptive Pamphlet, with Table of Sights, mailed Free on receipt of trade card.

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Silver or Vulcanite cases, 4, 5, or 6 inch ... 36/ per doz.  
Ditto, improved broad bore magnifying, &c. ... 48/ "  
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One bent and one straight 6-in. Clinical Thermometer  
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Special terms to large buyers. All our tubes are warrant. New Certificates  
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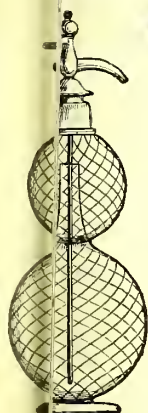
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	2 PINT.	3 PINT.	5 PINT.	8 PINT.
Caned, each ... ..	7/	8/	12/5	20/9
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**AMERICAN BUYERS are particularly Cautioned !!**

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This Water Bath will supply a long-felt want amongst Chemists and Perfumers, where small quantities of materials have to be dealt with.

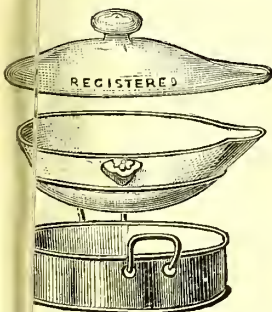
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Each 3/0 .. ..	5/6 .. ..	9/6

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Trade Mark, Registered

Marque déposée.

Schutz-Märke

H. MACK, ULM O/D.

PATENT.

Avoid Imitations!

## Pasta Mack

for Bath and Toilet use.

**Refreshing!**

**Comforting!**

Pasta Mack is put up in pretty boxes containing eight white little tablets; it is an entirely new and exquisite preparation for Ladies and offers the most unique and agreeable means of procuring a delicious, healthy and comforting bath as well as an excellent toilet-water for daily use.

Pasta Mack gives to the water a lovely perfume, and when used in warm water a most delicious and lasting odour pervades the whole room. By means of a new **Patent-Process** the aroma communicates itself to the water in such a perfect manner that the skin will retain for hours a most delicate and beautiful perfume.

Pasta Mack softens the hardest water immediately in a most extraordinary way, thus rendering it more suitable to wash in; if frequently used, it beautifies the complexion giving to the skin a soft, white and velvet-like appearance.

The **Carbonic Acid** contained in **Pasta Mack** is freed by coming in contact with the water, causes the Pasta Mack to act beneficially upon the Epidermis and to have a wonderful influence upon the whole system, refreshing it in a most exquisite way.

Pasta Mack is quite indispensable in summer time, especially in hot climates, where daily baths and frequent ablutions are necessary for the preservation of health.

By means of its refreshing and comforting qualities, **Pasta Mack** is a delicious necessity to all who use it, and should be kept in every bathroom, bedroom and nursery.

Pasta Mack when used in sea-water fully keeps its refined and delicate aroma and its refreshing qualities, and no one should embark on a sea voyage without taking a supply with them.



**Le Follet** says: — „Pasta Mack imparts a beautiful perfume, not only to the water, but to the skin of the bather; and this lasts for hours. The comforting and healthful effect on the system and the skin are, however, of far more importance than the pleasant odour.“

**Modern Truth** says: — „The „Pasta Mack“ tablets are **wonderfully refreshing** and pleasant. One or two tablets used in the bath convert the whole body of water into a delicious perfume, and one feels, after using it, as though one had been bathing in some sweet water spring of Araby the Blest.“

**Court Journal** says: — „Pasta Mack is an article for bath and toilet use which promises to become very popular, as it enables ladies to procure a healthy and comforting bath as well as an excellent toilet-water. It consists of a tablet which, when placed in the bath, gives to the water a perfume, and when used in warm water a delicious and lasting odour will pervade the whole room.“

**Mme. Schild's Journal** says: — „The mere process of cleaning with soap, while it cleans the skin, does not stimulate its action or give a tone to the system, whereby the whole body is invigorated. Pasta Mack does this.“

**The Family Dressmaker** says: — „Pasta Mack“ is a new and **most delightful preparation** for the toilet. It consists of a tiny tablet, portions of which (or a whole one) are dissolved in the bath or hand-basin, which not only sends forth a most agreeable perfume **but beautifies and softens the skin** also. It will soften the hardest water, thus rendering it more suitable to wash in, for hard water is most injurious to the complexion. The tablets are packed in pretty boxes of eight, and may be had of most chemists and perfumers.“



**To be had of all respectable Chemists and  
Perfumers throughout the world.**

***Sole Manufacturer and Inventor***

***H. Mack, Ulm o./Danube.***

Wholesale price for Export: In tin lined  
**Cases of 24 dozen boxes 21/— p. dozen** { **Net**  
**Per Sample Case of 3 dozen boxes 68/—** { **cash**  
Ex Warehouse Hamburg or London  
Tins & Cases free. — Free samples in every case.



THE BEST OF THE BEST  
 THE MOST COMPLETE  
 THE MOST PERFECT

Of Drapers Ink we sing, the Raiser  
 To it we owe our Finest days,  
 Use Drapers Ink and you like we  
 Classed high amongst great  
 men will be



# DRAPER'S INK (DICHROIC)

The Best Black Ink known,  
 Flows Easily from the Pen,

DRIES RAPIDLY,  
 AND IS CLEANLY TO USE.

BEWLEY & DRAPER  
 LIMITED  
 DUBLIN



Adopted by all the principal Banks, Railway Companies, and Public Offices, Her Majesty's Customs, and Trinity College; also supplied to the "Alert" and "Discovery" during the last Arctic Expedition.

## SELECTIONS FROM TESTIMONIALS.

**DRAPER'S DICHIROIC INK.**—The difficulty of obtaining an Ink which will really answer the purpose for which it is intended, without accomplishing a number of other results, both unforeseen and undesired, is proved by the number of applications with which we are honoured for a recipe for a "really good Black Ink." We have made many attempts, but we confess that we do not know how to make "a really good Black Ink." . . . We can prepare an infinite variety of Inks, but a model Ink like **DRAPER'S DICHIROIC** is beyond our power. Seriously, this Ink is about the best which can be bought, and whether for their own use, or for sale, our readers will do well to take our recommendation, and keep it in stock.—*Chemist and Druggist*.

CLIFTON, January 9th, 1874.

SIR,—I have now used your Ink for several years, and, though formerly I was constantly worried by the badness of Ink (and I have tried many of those reputed to be the best) in writing my prescriptions, I now find it quite a pleasure to write. Detailed eulogy is superfluous. I can only say the **DICHIROIC INK** is perfect.—Yours truly,

CHARLES R. MAXWELL, Physician.

### Extract from the Letter of an Indian Correspondent.

MOOLTAN, June 17th, 1872.  
"Tell DRAPER that his Ink is splendid here. When it dries up it bears watering, which no other Ink will do."

### From the Rev. C. H. SPURGEON.

Thanks are due to a friend who has sent us a supply of **DRAPER'S DICHIROIC INK**; it is, in our judgment, the very best for rapid writing. Even with the **Dichroic Ink**, we are occasionally unable to write a favourable review.—*The Sword and the Trowel*.

We are aware that many persons can write with a skiver upon anything in the shape of paper. They are to be envied. We are not of the happy number. We require a good pen and good paper, and, though fast, not least, good ink.

We are not now going to say which pens or which paper we prefer, but for the past twelve months we have used no other Ink than **DRAPER'S DICHIROIC**. It is manufactured by a firm of Chemists in Dublin, and is not so well known in the stationery trade as it deserves to be.—*The Stationery Trades' Journal*, March, 1880.

The *liquor sanguinis* of literature—ink—has never been as pure and agreeable fluid as it ought to be, considering how necessary its cordial co-operation is to pleasant writing and profitable reading. Can we not easily imagine that a sudden infusion of gall into the placidity of a leading article may result from the passing annoyance of a smudge in the ink-bottle? And how hard it must be to *do* jokes for the comic journals when your ink will insist on either issuing from your pen in horrible blobs, or else leaving no mark at all. At last all this is changed. No longer is the reader-writer to be "condemned rash rancour to usfil," in having to pen his phrases in uncomplacent mud. A new ink, called "**Dichroic**," has just been discovered and brought out by Messrs. **BREWSTER AND DRAPER**, of Dublin. The "**Dichroic Ink**" is a perfect solution, and therefore leaves no sediment. It is free from acid and does not corrode the pen. It runs freely and easily, and without grashness, from the pen's point. It becomes black in a few seconds, sinks into the paper so rapidly as seldom to require blotting-paper, and is more indelible than ordinary ink.—*Medical Press and Circular*.

### IMPORTANT TO PHONOGRAPHERS.

EXTRACT FROM A LETTER OF MR. ISAAC PITMAN.

*I have been using your "Dichroic Ink" for the last week, have written much with it, and like it exceedingly. It is extremely fluid, does not thicken on the pen and put it out of order, and dries very quickly.*



# THE NEW PERMANENT ENGRAVED WINDOW TABLETS IN RUBY, BLUE, AMBER, & OPAL GLASS.

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8x6 Ruby Tablets, £3 15s. Od.

**PRIZE MEDAL**  
International  
Health Exhibition,  
1884.

**J. R. CORSAN, LONDON,**  
The London Sand Blast Works, 80 Grays Inn Road, W.C.  
To Prevent Fraud demand Business Card from Travellers.

**AWARD of MERIT**  
International  
Sanitary Exhibition,  
1881.

"No Gamekeeper or Poultry Breeder should be without them."—*Land and Water.*

## WALTON'S ROUP PILLS AND TONIC PASTE

For the certain Prevention or Cure of Roup, Gapes, and  
ALL Diseases of Game, Poultry, Pigeons & Cage Birds.

The thoroughly reliable remedies are now so well known and appreciated, gaining a sale and reputation altogether unparalleled in the history of Game, Poultry, and Pigeon Medicines, and promise such an increasing demand, as to warrant the Trade generally in keeping them constantly in Stock. A list of specimens of Testimonials, including the names of most of the principal breeders in this country, sent free on application to the Proprietor, whose Signature and Trade Mark are engraved upon the Labels of every Box and Tin of the genuine articles.

Price—Roup Pills, 6d., 1/-, 2/-, 4/-, and 10/- per box.  
Tonic Paste, 6d., 1/-, 2/6, 5/-, and 10/- per tin.

The Trade treated liberally. Of all Wholesale Houses, or supplied direct by  
**JOHN WALTON, CROYDON, near LONDON.**

## A PURE CUP OF TEA

Is obtained in 3 mins. by means of  
**HOBBS'**

Patent Antitannic Infuser.

Better Flavour and Less Tea used  
than with the teapot.

**READ OUR** GRATIS  
PAMPHLET. and  
POST  
FREE.

For Single Cups of Tea  
HOBBS' INFUSER is un-

equalled. Its cost is soon repaid by the saving in the quantity of  
tea used. Price 1s. 6d. from all China Dealers, Grocers, Chemists,  
& or post free direct, 1s. 6d.

**HOBBS' INFUSER CO., Limited,**

Offices:—12, WOOL EXCHANGE, LONDON, E.C.;  
BREWSTERNE; and 62, NORTH STREET, BRIGHTON.

## RIDGE'S FOOD

is the BEST,  
and has the  
LARGEST SALE  
in the World  
of any Infant's  
Food.

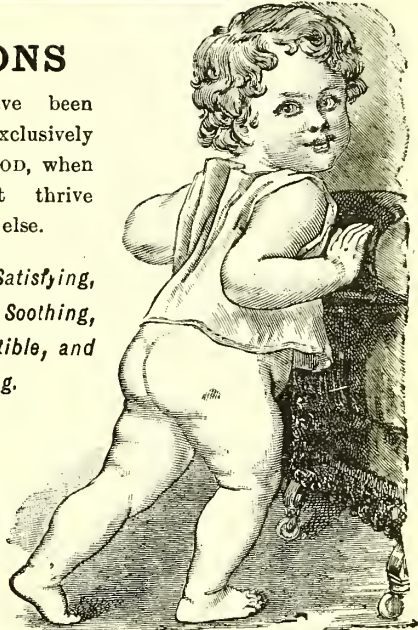
### MILLIONS

of Children have been  
brought up exclusively  
upon RIDGE'S FOOD, when  
they could not thrive  
on anything else.

RIDGE'S FOOD is Satisfying,  
Strengthening, Soothing,  
Agreeable, Digestible, and  
Nourishing.

MANUFACTORY—  
Ridge's Royal  
Food Mills,  
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Telegraphic Address—  
"RIDGE'S FOOD  
LONDON."



Ridge's Food sets the babies on their legs, and makes  
them push along.

Simple.  
Reliable.  
Economical.

It Stands at  
The Head.  
Imitations  
Attempt  
to Compete.

Rapid.  
Clean and  
DURABLE.

**Cyclostyle**  
Typewriter  
SPEEDY  
EASY  
SIMPLE  
DURABLE

### COPY OF OPINION OF A USER.

Henley-on-Thames, May 31st, 1887.  
Gentlemen,—I have had a fair amount of experience in the use of various  
writing machines, and prefer the Cyclostyle to any other that I have used. The  
machine is easily written, and the printing is especially clean and easy to work.  
I am, yours faithfully,  
ALEXANDER GROVES, Grocer, &c.

Price of Apparatus complete. Note size, 21/; Letter size, 27/6; Foolscap, 31/6

### THE "WORLD"

## TYPE WRITER

Is the latest and by far the simplest Type Writer yet introduced.

It is absolutely simple and requires no learning.

After a little practice a speed of 40 words per minute can be obtained.

It prints very clearly, and different styles of Type can be supplied.

Prints on Post-cards, Envelopes, or Tags.

Weights 4 lbs., and is only 12 in. long by 6 in. wide, therefore is  
very portable.

Re-inking of Type is extremely simple.

Chemists will find the Type Writer very useful for Labels, &c.

It is, in fact, a strong, perfect Type Writer, and only One-third the  
price of any other similar Machines.

Price £2 2s. Od. complete.

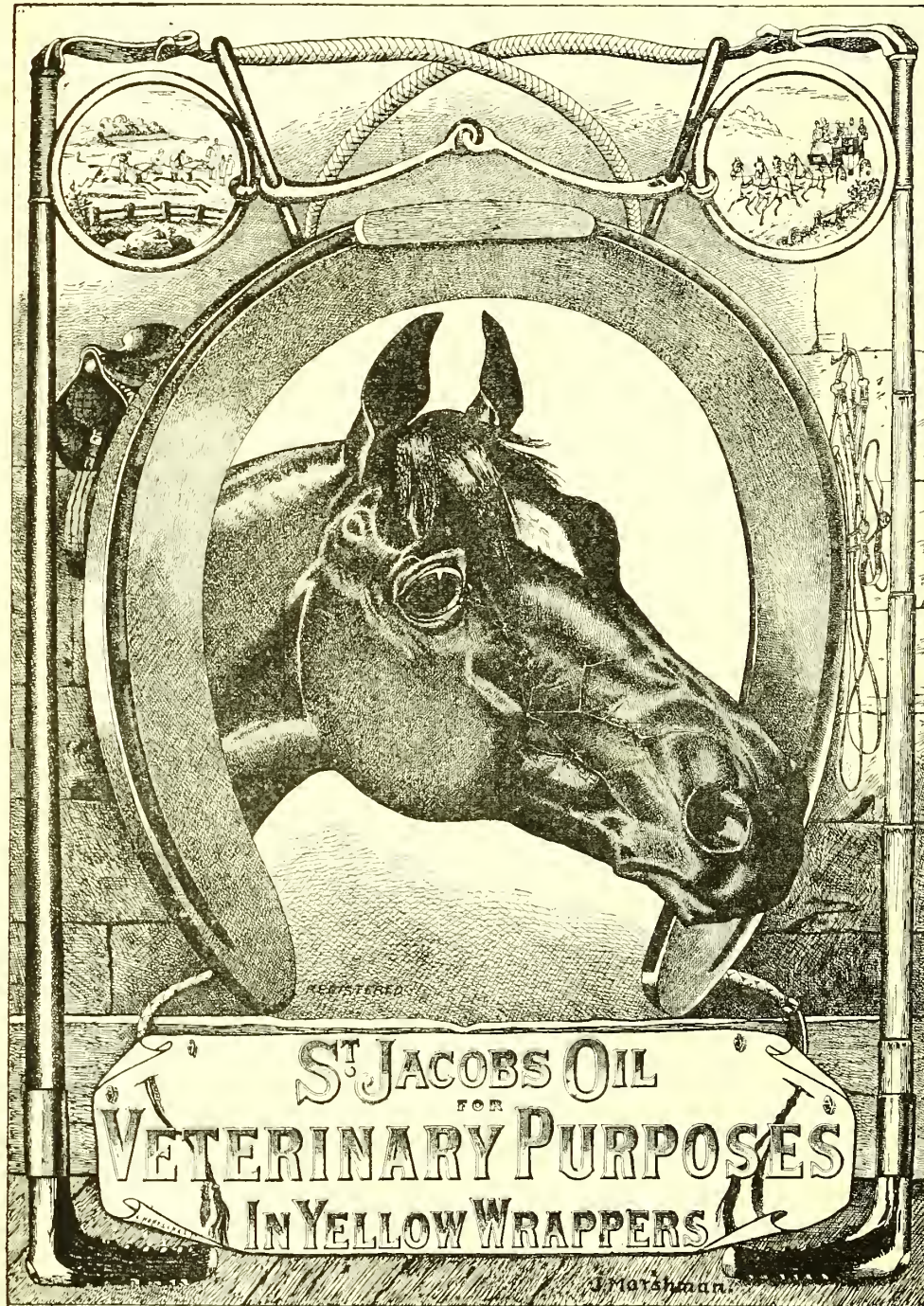
SPECIMENS OF WORK AND TESTIMONIALS ON APPLICATION TO THE

**FACSIMILE APPARATUS CO.,**

79a GRACECHURCH STREET, LONDON, E.C.



# TO THE WHOLESALE TRADE OF GREAT BRITAIN.

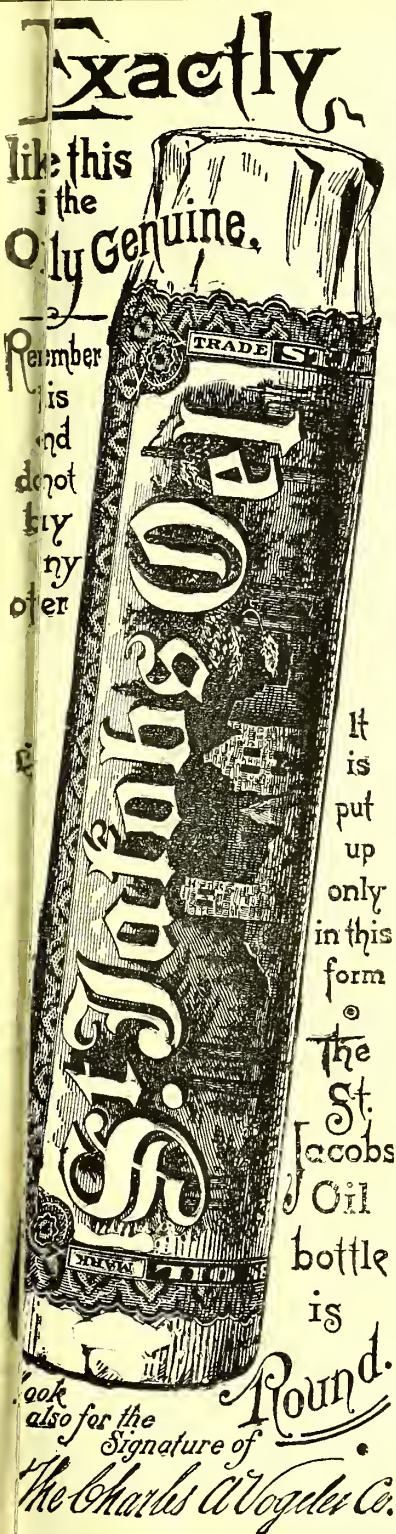


**IT IS A FACT** verified by the records of the trade that no other proprietary medicine has ever achieved so great a popularity and sale as ST. JACOBS OIL throughout the world. Its claim rests upon the solid foundation of merit, and we shall at all times uphold and extend its reputation by extensive and dignified advertising.

Owing to the great success attained by using St. Jacobs Oil for Veterinary purposes in other Countries, we have decided to introduce it into Great Britain for that purpose. We distinguish the Oil for Veterinary purposes from that

used for Human use, by YELLOW WRAPPERS. Dealers are particularly cautioned to purchase the Oil in YELLOW WRAPPERS ONLY FOR VETERINARY PURPOSES, and for all cases where an outward application for Horses, Cattle, and Dogs is Indicated. No stable or kennel is complete without





*St. Jacobs Oil in Yellow Wrappers. As we have already begun to advertise the Oil for Veterinary purposes on the same liberal scale as we are now advertising it for Human use, we trust that every Dealer in Medicine throughout the United Kingdom will at once place a limited quantity in stock, in order that they may be able to supply the demand we are creating. As an inducement to push St. Jacobs Oil for Veterinary purposes, we have, as below, made a discount from our regular price of 5 per cent. for cash. For the convenience of buyers we will allow such quantities of the Oil in Yellow Wrappers as may be desired to form a part of an order on best terms. We will on application furnish original and attractive Show Cards and other matter, advertising the Oil for Veterinary purposes, to all Dealers who will stock same. We guarantee the sale of St. Jacobs Oil in Yellow Wrappers.*

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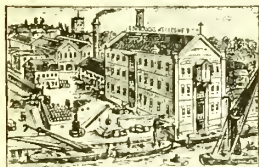
1 Bottle	...	...	...	2/6	} less 5% Cash with order.
1 Dozen	...	...	...	21/-	
12 Dozen	...	...	...	20/-	
36 Dozen	...	...	...	19/6	

Special Price List for St. Jacobs Oil for Veterinary purposes for Export in Bond furnished on application.

THE CHARLES A. VOGELER CO., 45 FARRINGTON ROAD, LONDON.



*Formulæ and Price List of New Pharmaceutical and Sanitary Products, Apparatus, &c., introduced to the Medical Profession and Drug Trade by*



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ALFRED BISHOP & SONS, London; BENNO, JAFFE & DARMSTAEDTER, Martinikenfelde, Germany; COLGATE & Co., New York; FAIRCHILD BROS. & FOSTER, New York; FELLOWS' MED. MANUFACTURING CO., New York; JOHN WYETH & BRO., Philadelphia; LANMAN & KEMP, New York; MEISTER, LUCIUS & BRUNING, ANTIPYRINE, Hoechst a/M; LADD & COFFIN, New York.

Wholesale Consignees for SALOL, from Successors to Dr. F. VON HEYDEN & Co.

Wholesale Depot for SULPHONAL (RIEDEL) and SYMIS' LAC BISMUTHI.

Goods of above-mentioned firms are exhibited by Messrs. B. W. & Co. this year at the International Exhibitions at Melbourne, Glasgow, Barcelona, Brussels, Ostend, and at the Anglo-Danish Exhibition, London. More than 70 Awards, Gold Medals, Diplomas, Silver Medals, &c., have been given the within-mentioned goods at various Exhibitions, the last award being that of the Prize Medal of the Sanitary Institute of Great Britain.



**SUPPLIED BY WHOLESALE DRUGGISTS THROUGHOUT THE WORLD.**

**Absorbent Cotton** (Lawton), 2 oz. 8/ doz.; 4 oz. 12/6 doz.; 16 oz. 36/ doz.

**Alpine Cologne** (Fragrant and Antiseptic)—Pinol Perfume in 1, 2, 3/ bottles at 9/, 18/, 30/ per doz. respectively.

**Antipyrin, Powder or Crystals.** 3/5 oz.; Tablets, 5 gr., 25 in bottle, 20; 100 in bottle, 70/ doz.

**Antipyrin, Effervescent** (Bishop), 3/6, 33/ doz.

**Artificial Sponges** (Burroughs), &c.—Antiseptic, 24/ gross.

**Atomisers, Steam**, 10/6, 18/9, 22/6, 26/3, 35/ each.

**Beef and Iron Wine** (Dose, 2 to 4 dr.), 8 oz. 2/6, 22/ doz.; 16 oz. 4/6, 42/ doz.

**Caffein Citrate** (Bishop's Effervescent), 2/6, 20/ doz.

**Caffein Hydrobromate** (Bishop's Effervescent), 2/6, 20/ doz.

**Cashmere Bouquet Soap** (Colgate & Co.), 1/3, 10/ doz., net cash.

**Cashmere Bouquet Extract** (Colgate & Co.), 1 oz. 2/6, 22/ doz.; 2 oz. 4/, 30/9 doz., net cash.

**Chlorodyne** (New Formula), 1 oz. 1/6, 14/ doz.; per lb. 8/.

**Cod-liver Oil** (Kleper), "Pure and Palatable," 8 oz. 16/; 15 oz., 24/ doz.

**Dialysed Iron** (Wyeth), 4 oz. 3/, 27/ doz.; per lb., 3/6.

**Drug Mill** (Enterprise) 3A size 36/, 4A size 54/, 4½A 90/ each. Ornamented, extra, 10/ each.

**Elixoids** (or Palatable Mixtures), in 8 oz. and 1 lb. bottles.

"Etna" Stoves, 20/ each.

**Eucalyptia** (Eucalyptine). Pure oil E. Globulus, 2 oz. 15/ doz.; including bottles, per lb., 8/.

### Fairchild Preparations:—

Pepsin in Scales (Pure), ½ oz. 20/ per doz.; 1 oz. 60/.

Pepsin, Powdered (Pure) ditto.

Zymine (Ext. Pancreatis), Pure ditto.

Zymine Peptonising Powders, in boxes of 12 Tubes 2/, 18/ doz.

Pepsin Tablets, 25 in bottle 1/6, 14/ doz.; 100 in bottle 4/6, 42/ doz.

Zymine Tablets, 25 in bottle 2/0, 18/ doz.; 100 in bottle 5/, 48/ doz.

Zymine Comp. Tablets, 25 in bottle 2/, 18/ doz.; 100 in bottle 5/, 48/ doz.

Zymised Suppositories (Meat), 12 in box 2/6, 22/ doz.

Zymised Suppositories (Milk), 12 in box 2/6, 22/ doz.

Trypsin (Pure), 1 drachm bottles, 54/ doz.

Peptonising Apparatus, 10/ each.

**Fellows' Syr. Hypophosphites**, lbs. stamped 7/; less than 1 doz. 66/; per doz. 60/; unstamped 12/ doz. less; ½ lbs. 4/; less than 1 doz. 38/; 1 doz. 34/; unstamped 6/ per doz. less; special terms for large quantities. Net prices.

**Florida Water** (Murray & Lanman), 3/26/ doz., 303/ gross; 2/, 13/6 doz., 156/ gross; 1/, 8/ doz., 91/ gross. Net cash.

**Hazeline** (Best preparation of Hamamelis), 4 oz., 1/6, 14/ doz.; 1 lb., 4/6, 42/ doz.



**Hypodermic "Tablets" (Compressed Drugs)**, in tubes of from 12 to 20 tablets, 12s. doz. uniformly.

Aconitin, 1-250 gr.

Apomorphine, 1-10 gr. and 1-15 gr.

Atropin Sulphate, 1-150, 1-100, and 1-60 gr.

Caffein Sodio-Salicylate, 1-2 gr.

Cocain, 1-6 and 1-2 gr.

Codcine, 1-4 gr.

Colchicin, 1-100 gr.

Cornutin, 1-60 gr.

Carare 1-12 and 1-6 gr.

Digitalin, 1-100 gr.

Ergotin, 1-150 and 1-300 gr.

Eserin, 1-100 gr.

Homatropin, 1-250 gr.

Hydrarg. Perchlor., 1-60 and 1-30 gr.

Hyoscine, 1-200 and 1-75 gr.

Hyoscyamin, 1-80 and 1-20 gr.

Morphine Bi-Meconate, 1-8, 1-6, 1-4, and 1-3 gr.

Morphine Sulphate, 1-12, 1-8, 1-6, 1-4, 1-3, and 1-2 gr.

Morphine Sulphate, 1-12 gr., with Atropin Sulphate, 1-250 gr.

Morphine Sulphate, 1-8 gr., with Atropin Sulphate, 1-200 gr.

Morphine Sulphate, 1-6 gr., with Atropin Sulphate, 1-180 gr.

Morphine Sulphate, 1-4 gr., with Atropin Sulphate, 1-150 gr.

Morphine Sulphate, 1-3 gr., with Atropin Sulphate, 1-120 gr.

Morphine Sulphate, 1-2 gr., with Atropin Sulphate, 1-100 gr.

Pilocarpin, 1-10, 1-3, and 1-2 gr.

Quinine Hydrobromate, 1-2 gr.

Sclerotinic Acid, 1-2 gr. and 1 gr.

Strychnine Sulphate, 1-150, 1-100, and 1-60 gr.

Strophanthin, 1-500 gr.

**Hypodermic Needles and Mounts**, nickel silver, 1/4 each.

**Hypodermic Syringes**, 7/ each; solid silver, in case, 10/ each.

**Hypodermic Pestle and Mortar**, 3d. each.

**Hypodermic Pocket Cases**, for 6 to 12 tubes, 5/ each; fitted complete with syringe, &c., and 6 tubes, 15/ each; ditto and 12 tubes, 20/.

**Inhaler, Chloride of Ammonium** (Burroughs), 10/, 90/ doz.



**Kepler Extract of Malt**, 2/6, 22/ doz.; 4/, 38/ doz.  
**Kepler Extract of Malt Combinations**, small size from 22/ to 30/ doz.; large size from 38/ to 56/ doz.  
**Kepler Solution of Cod-liver Oil in Malt**, 2/6, 22/; 4/, 38/ doz.  
**Lanoline** (Liebreich), 3/6 lb.; in 7 lb. packages, 3/3 lb.

Anhydrous, 4/ lb.  
 Cold Cream, 1/6, 14/ doz.  
 Pomade, 1/6, 14/ doz.  
 Soap, 1/ per cake, 8/ doz. tablets.  
 Eucalyptine Soap, 1/ per cake, 8/ doz. tablets.  
 Mercurial Ointment, 4/6 lb.  
 Veterinary Ointment, 2/ lb.

**Tet Lanoline**, tubes 6d. each, 4/6 doz.

**Lunorg's Perfumes**—Alpine Violet, Edenia, Fascination, Goya Lily, Lily of the Valley, Marechal Neil Rose, Tally-ho, 1 oz. 2/6, 19/3 doz.; 4/, 30/9 doz. Net cash.

**Medicine Cases** (Metal), 5 bottles, 24/ doz.; Morocco, with 10 3-dr. bottles, 120/ doz.; carriage case, containing 48 bottles, assorted, 3/ each.

**Medicine Pocket Case**, contg. 10 tubes Tabloids Trinitrated Drugs, 5/.

"	"	16	"	"	8/6.
"	"	24	"	"	15/.

**Medicine Chests**—

"Longo," with tin linings, 50/ each; fitted complete with medicines, instruments, &c., as supplied to H. M. Stanley, £7 to £15.

"Colonial" (metal), with bottles, 8/; ditto, fitted with "Tabloids," &c., from 50/; ditto, teak wood, metal trays and bottles, 25/; ditto, fitted with "Tabloids," &c., from 60/.

**Medicine Droppers**, each /6.

**Menthol Plasters** (with racks), 1/1½, 7/9 doz.; without racks, /6 doz. each, net cash.

**Menthol Plaster**, in 1 yd. rolls—yds., 4/6; per doz., 42/ net cash.

**Nuxomica Extract** (Bishop's Effervescent), 1/6; 12/ doz.

**Pap. Fibre Lint** (for Surgeons and Dentists), ½ lb. boxes, 30/ doz.; 1 lb., 8/ doz.

**Pepsin Saccharated**.—Dose, 5 to 15 grs. 1 oz. bottles, 22/ doz.

**Pharmaceutical Stills** (Remington).—3 gals. each, 140/; 5 gals. each, 200/.

**Pine** (Essentia Pinus Pumilionis Pura), large, 2/6, 24/ doz.; small, 1/6, 5/ doz.

**Pine Extract, Burroughs** (for Baths, Plasters, &c.), 1/; 9/ doz.

**Pine Pastilles**, 1/; 9/ doz.

**Pine Atomisers**, 12/; 120/ doz.

**Prescription Books**, 2/ per doz.; leather covers, 1/.

**Remington's "Pharmacy,"** 21/.

**Saccharin**. (See also "Tabloids.")

1 oz. bottles, 72/ doz.  
 1 lb. " 63/ per lb. net.  
 1 oz. soluble, ¼-oz. oval bottles, 20/ doz.  
 1 oz. ditto, 1-lb. bottles, 60/ per lb. net.

**Sal.** in Crystals, including bottles, per oz., 1/3; per lb., 16/10½. (See "Tabloids.")

**Strphanthus Tincture and "Tabloids,"** ½ oz. tr., 4/ doz.; 1 oz., 6/ doz.; per lb., 6/ (See "Tabloids.")

**Sulonal**, in Crystals, in 1-oz. bottles, 6/11½ each. (See "Tabloids.")

**Sydes' Lac Bismuthi**. Dose, 1 drachm in water. 8 oz., 24/ doz.; 16 oz., 48/ doz.

**Sydes' Lac Bismuthi et Ceril**. Dose, 1 drachm in water. 8 oz., 30/ doz.; 16 oz., 60/ doz.

**Sydes' Ol Lavand. Rect.**, 8 oz., 126/ doz.; 1 lb., 252/ doz.

**Sydes' Syr. Hydrobrom.** Dose, 1 drachm. 8 oz., 30/ doz.

**"Tabloids" and "Tablets" (Trade Marks) of Compressed Drugs.**

Ammon. Bromide, 5 gr., 100 in bottle, 22/ doz.; 10 gr., 100 in bot., 32/ doz. Dose, 1 or 2.

Ammon. Chloride, 3 gr. ovals, 4/6 doz.; 100 in bot., 12/6 doz.; 5 gr., 100 bot., 18/ doz.; 10 gr., 100 bot., 22/ doz. Dose, 1 slowly dissolved.

Ammon. Chlor. with Borax. 100 in bot., 22/ doz. Dose, 1 slowly dissolved.

Antifebrin, 2 gr. Dose, 1 to 6. 25 in bot., 12/6 doz.; 100 in bot., 24/ doz.

Antipyrin, 5 gr. Dose, 3 to 6. 25 in bot., 20/ doz.; 100 in bot., 70/ doz.

Bismuth Subnitrate, 5 gr., 100 in bot., 28/ doz.; 10 gr., 100 in bot., 42/ doz. Dose, 2 to 4 after meals.

**"TABLOIDS" AND "TABLETS" (Trade Marks) of COMPRESSED DRUGS—Continued.**

Caffeine Citrate, 1 gr. Dose, 2 or 4. 100, 36/ doz.

Cascara Sagrada Ext., 2 gr. Dose, 1 or 2. 25 in oval bot., 1/7/6 doz.; 100, 22/ doz.

Cascara (1 gr. dry ext.), Enonymin (1 gr.), and Nax. Vom. (1-16 gr.) Dose, 1 to 4. 25 in oval bot., 14/ doz.; 100, 48/ doz.

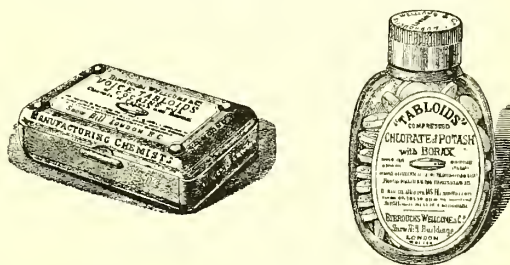
Citibartic Comp., U.S.P. Dose, 1 to 3. 25 in oval bot., 7/6 doz.; 100, 18/ doz.

Charcoal, 5 gr. Dose, 2 to 6 or more. In oval bot., 7/6 doz.; 100, 14/ doz.

Chloral Hydrate, 5 gr. Dose, 2 to 3. 100 in bot., 24/ doz.

Chloramine, for the throat and voice. 25 in bottle, 12/ doz.

Cinchonidine Salicylate, 2 gr. Dose, 2 to 4. 100 in bot., 90/ doz.



Cocaine with Potash and Borax (Voice). Dose, 1 slowly dissolved 25 in oval bot., 1/8/6 doz.; 2/ size, 80 in box, 16/ doz.

Ipecac. and Opium (Dover's Powder), 5 gr. Dose, 1 to 4. In oval bot. of 25, 8/6 doz.; 100 in bot., 32/ doz.

Ipecac. Powder, 5 gr. Dose, 2 dissolved in water as an emetic. 100 in bot., 16/ doz.

Iron and Quinine Citrate, 3 gr. Dose, 1 to 4. 25 in bot., 8/6 doz.; 100 in bot., 32/ doz.

Laxative Vegetable. Dose, 1 or 2. 25 in oval bot., 7/6 doz.; 100 in bot., 18/ doz.

Lithia Carbonate, 2 gr. Dose, 2 or 3 thrice daily. 100 in bot., 32/ doz.

Manganese Dioxide, 2 gr. Dose, 1 to 5. 25 in bot., 8/6 doz.; 100, 32/ doz.

Nitro-Glycerine (Trinitrine), 1-100 and 1-50 gr. Dose, 1. 25 in oval bot., 7/ doz.; 100, 18/ doz.

Pepsin Pure, 1 gr. Dose, 1 to 5. 25 in oval bot., 14/ doz.; 100, 42/ doz.

Pepsin Saccharated, 5 gr. Dose, 1 to 3. 100 in bot., 32/ doz.

Peptonic. Dose, 1 or 2 after meals. 25 in oval bot., 14/ doz.; 100 in bot., 48/ doz.

Potash Bicarb., 5 gr. Dose, 1 to 4. 25 in oval bot., 4/6 doz.; 100 in bot., 12/6 doz.



Potash Chlorate, 5 gr. 30 in box, 4/; 30 in oval bot., 4/6 doz.; 100, box or bot., 8/6 doz. Dose, 1 slowly dissolved in the month.

Potash Chlorate with Borax. Dose, 1 slowly dissolved in the month. 30 in box, 4/ doz.; 30 in oval bot., 4/6 doz.; 100 in box or bot., 8/6 doz.

Potash Nitrate (Sal Prunella). Dose, 1 slowly dissolved in the month. 100 in bot., 14/ doz.



"TABLETS" AND "TABLETS" (Trade Marks) OF COMPRESSED DRUGS—  
Continued.

- Potash Permanganate, 1 gr., 100 in bot., 18/ doz.; 2 gr., 100 in bot., 32/ doz. Dose, 1 or 2.
- Potassium Bromide, 5 gr., 100 in bot., 18/ doz.; 10 gr., 100 in bot., 32/ doz. Dose, 1 or 2.
- Potassium Iodide, 5 gr. Dose, 1 or more with meals. 100 in bot., 36/ doz.
- Quinine Bisulphate,  $\frac{1}{2}$  gr., 50 in oval, 8/ doz.; 100, 12/ doz.; 1 gr., 36 in oval, 8/ doz.; 100, 15/ doz.; 2 gr., 24 in oval, 8/ doz.; 100, 24/ doz.; 3 gr., 24 in oval, 12/ doz.; 100, 34/ doz.; 5 gr., 24 in oval, 17/6; 100, 50/ doz.
- Quin. Bisulph., 1 gr.  
Reduced Iron, 1 gr.  
Arsenic, 1 20 gr.  
Strychnia, 1-30 gr. } Dose, 1 tbrice daily after meals, swallowed or previously dissolved in water. 100 in bot., 38/ doz.
- Rhubarb Comp., 3 gr. Dose, 1 to 5. 24 in oval box, 7/6 doz.; 100, 22/ doz.
- Rhubarb and Magnesia, 5 gr. Dose, 1 to 5. 24 in oval, 7/6 doz.; 100, 22/ doz.
- Rhubarb and Soda, 5 gr. Dose, 1 to 5. 24 in oval, 7/6 doz.; 100, 22/ doz.
- Rhubarb, 3 gr. Dose, 2 to 4. 24 in oval, 7/6 doz.; 100, 22/ doz.
- Saccharin,  $\frac{1}{2}$  gr. /6, 4/ doz.; 1/8, 8/ doz.; in oval bot. of 100, 2/6, 24' doz. Substitute for sugar in diabetes.
- Silol, 5 gr. Dose, 1 or 2. 100 in bot., 60/ doz.
- Soda Bicarbonate, 5 gr. Dose, 1 to 6. 30 in oval bot., 4/6 doz.; 100, 12/6 doz.
- Soda Chlorate, 5 gr. Dose, 1 to 4 slowly dissolved. 100 in bot., 22/ doz.
- Soda Chlorate and Borax, 5 gr. Dose, 1 to 4 slowly dissolved. 25 in ovals, 7/6 doz.; 100, 18/ doz.
- Soda Mint. (or "Neutralising Tablet"). Dose, 1 to 4. 25 in oval, 7/6 doz.; 100, 18/ doz.
- Soda Salicylate, 3 gr., 100 in bot., 28/ doz.; 5 gr., 100 in bot., 38/ doz. Dose, 1 to 4.
- Soda Sulpho-carbolate, 5 gr. Dose, 1 to 3. 100 in bot., 28/ doz.
- Sodium Bromide, 5 gr., 100 in bot., 18/; 10 gr., 100 in bot., 32/ doz. Dose, 2 to 4.
- Sodium Iodide, 5 gr. Dose, 1 or more with meals. 100 in bot., 48/ doz.
- Strophanthus (2 minims of Tincture in each). 50 in oval bot., 8/6 doz.; 100, 16/ doz.
- Sulphonol. Dose, 1 to 4. 25 in bot., 48/ doz.; 100, 144/ doz.
- Tannin. Dose, 1 or more as a styptic. 100 in bot., 22/ doz.
- Test Tablets (for preparing Fehling's Solution). Test for sugar. 18/ doz.
- "Thirst Quenchers" (Contain Citric Acid, &c.), 8/ doz.
- Tonic Comp. { Iron Pyrophos., 2 gr.  
Quinine 1 gr.  
Strychnine 1-100 gr. } Dose, 1 with meals.
- 25 in oval bot. 12/6 doz.; 100, 36/ doz.
- Trinitrine (Nitro-glycerine), 1-100 gr. and 1-50 gr. Dose, 1. 25 in oval, 7/ doz.; 100, 18/ doz.
- Trinitrine and Amyl Nitrite. Dose, 1. 25 in oval, 12/ doz.; 100, 36/ doz.
- Trinitrine Comp. { Trinitrine, 1-100 gr.  
Nitrite of Amyl,  $\frac{1}{2}$  gr.  
Capsicum, 1-50 gr.  
Menthol, 1-50 gr. } Dose, 1.
- 25 in oval, 12/6 doz.; 100, 36/ doz.
- Urethane, 5 gr. Dose, 1 to 4. 25 in bot., 16/ doz.; 100, 40/ doz.
- Voice (Potash, Borax, and Cocaine). Dose, 1 slowly dissolved. 30 in box, 8/ doz.; in oval bot., 8/6 doz.; 80 in box, 16/ doz.
- Zinc Sulphate, 1 gr., 100 in bot., 18/ doz.
- „ Sulpho-carbolate, 2 gr., 100 in bot., 18/ doz.
- Zymine (3 grs. Ext. Pancreatis). 25 in bot., 18/ doz.; 100, 48/ doz.
- Zymine Comp. (Ext. Pancreatis, Ipecac., and Bismuth Subnitrate). 25 in bot., 18/ doz.; 100, 43/ doz.

**Tablets of Triturated Drugs:**

In bts. of 50 or 100, 8/6 doz., and tubes of 25, 4/6 doz.



Bots. of 100.	Bots. of 50.
Aconite Tinct., 1 min.	Alain, $\frac{1}{2}$ gr.
Arsenious Acid, 1-100 gr. and 1-50 gr.	Anti-Con- stipation { Belladonna Ext., $\frac{1}{2}$ gr. Strycb., 1-60 gr. Ipecac., $\frac{1}{16}$ gr.
Belladonna Tinct., 1 min.	Apomorphine Muriate, 1-50 gr.
Calcium Sulphide, $\frac{1}{16}$ gr.	Atropin Sulph., 1-100 gr.
Capsicum Tinct., 1 min.	Digitalin, 1-100 gr.
Digitalis Tinct., 1 min.	Euonymin Resin, $\frac{1}{2}$ gr.
Hydrarg. Perchlor., 1-100 gr.	Hydrarg. Iod. Rub., $\frac{1}{16}$ gr.
Hydrarg. cum Creta (Grey Powder), $\frac{1}{2}$ gr.	Hydrarg. Iod. Vir., $\frac{1}{8}$ gr.
Hydrarg. Subchlor. (Calomel), $\frac{1}{16}$ gr.	Morphine Sulphate, $\frac{1}{16}$ gr. & $\frac{1}{2}$ gr.
Hyoscyamus Tinct., 1 min.	Opium Tinct. (Laudanum), 2 min.
Nux Vomica Tinct., 1 min.	Pilocarpine Muriate, $\frac{1}{16}$ gr.
Tinct. Camph. Co. (Paregoric), 2 min.	Podophyllin (Resin), $\frac{1}{2}$ gr.
	Santonin, $\frac{1}{2}$ gr.
	Strophanthus Tinct., 2 min.

**Tampons (Vaginal, &c.).**

Eucalyptia (Eucalyptine), Ioline, Iodised Paenol, Belladonna, 36/ gross.

**Terebene, Pure (Burrhoughs).**

1 oz. bts., 8/6 doz.; 2 oz., 12/ doz.; 8 oz., 24/ doz.; 16 oz., 45/ doz.

**Tincture Press (B. W. & Co.).**

13/ each; smaller size, 11/ each.

**Valoid Fluid Extracts—**

*Equivalent Liquid, or Fluid Extracts, of D finite Standard Strength.*

Each pound of valoid represents the medicinal properties of one pound of pure drug, inclusive of alkaloid, resinoid, or other active principles.

The drugs are first assayed, tested, or critically examined, those of inferior quality or deficient in amount of active principles, being discarded, and those only employed which are of full standard strength.

Our process of cold reprecipitation completely exhausts the drug of all medicinal properties, and the menstruum employed is such as to hold them permanently in solution and preserve them indefinitely in any climate.

Valoids are the most convenient and reliable form of drug for the preparation of Tinctures, Syrups, Decoctions, Infusions, &c. In every case the Valoid Extract may be taken as the exact equivalent of the drug.

	4 oz. Bots. each	1 lb. Bots. each
Aconite Root ( <i>Aconitum Napellus</i> ). Dose, 1 to 2 min. One to seven rectified spirit makes the Tinctura Aconiti, B.P. . . . .	2/3	8/0
Actaea Racemosa ( <i>Cimicifuga racemosa</i> , <i>Black Cohosh</i> ). Dose, 10 to 30 min. One in seven proof spirit makes Tinct. Actae Racemose, B.P. . . . .	2/3	8/0
Aloes ( <i>Aloe Socotrina</i> ). Dose, 5 to 15 min. . . . .	2/3	8/0
Arnica Root ( <i>Arnica Montana</i> ). Dose, 5 to 20 min. One to nineteen rectified spirit makes Tinct. Arnica, B.P. . . . .	2/0	7/0
Bael Fruit ( <i>Egle Marmelos</i> ). Dose, 1 to 2 min. . . . .	2/0	7/0
Belladonna Leaves ( <i>Atropa Belladonna</i> ). Dose, 2 to 3 min. One to nineteen rectified spirit makes Tinct. Belladonnae, B.P. . . . .	2/3	8/0
Blackberry ( <i>Rubus Villosus</i> ). Dose, $\frac{1}{2}$ to 1 min. . . . .	2/3	8/0
Bryony ( <i>Bryonia Alba</i> ). Dose, 5 to 30 min. One to seven proof spirit makes Tinct. Bryoniae . . . . .	2/0	7/0
Buchu ( <i>Barosma Betulina</i> ). Dose, $\frac{1}{2}$ to 2 min. One to seven proof spirit makes Tinct. Buchu, B.P. Half oz. in 10 oz. distilled water makes Infusum Buchu, B.P. . . . .	2/0	7/0
Butternut ( <i>Juglans Cinerea</i> ). Dose, 20 to 60 min. . . . .	2/3	8/0
Calumba ( <i>Jateorrhiza Calumba vel Cocculus Palmatas</i> ). Dose, $\frac{1}{2}$ to 1 drachm. One to seven proof spirit makes Tinct. Calumbae, B.P. Half oz. in 10 oz. distilled water makes Infusum Calumbae, B.P. . . . .	1/9	6/0
Cannabis Sativa ( <i>Indian Hemp</i> ). Dose, 2 to 5 min. . . . .	3/0	10/0
Capsicum ( <i>Capsicum Fastigiatum</i> ). Dose, 2 to 5 min. One to twenty-six rectified spirit makes Tinct. Capsici, B.P. . . . .	2/3	8/0



## VALOID FLUID EXTRACTS—Continued.

	4-oz. Bots. each	1-lb. Bots. each
Cocara Sagrada ( <i>Rhamnus Purshiana</i> ). Dose, 10 to 30 min. .. .. .	1/9	6/0
Cochu ( <i>Acacia Catechu</i> ). Dose, 5 to 30 min. ..	2/3	8/0
Chamomile ( <i>Anthemis Nobilis, Chmomile</i> ). Dose, 1 to 1 drachm. Half oz. in 10 oz. distilled water makes Infusion of Chamomiles .. .. .	2/3	8/0
Chiretta ( <i>Ophelia Chirata</i> ). Dose, 1 to 1 drachm. One to seven proof spirit makes Tinct. Chirette, B.P. Quarter oz. in 10 oz. distilled water makes Infusum Chirette, B.P. .. ..	2/0	7/0
Cinchona Calisaya ( <i>Calisaya Bark</i> ). Dose, 1 to 1 drachm .. .. .	2/1	7/6
Cinchona Red ( <i>Cinchona Succirubra</i> ). Dose, 1 to 1 drachm. One to four proof spirit makes Tinct. Cinchona, B.P. .. .. .	2/1	7/6
Coca ( <i>Erythroxylon Coca</i> ). Dose, 1 to 4 drachms. .. .. .	2/0	7/0
Colchicum ( <i>Colchicum Autumnale</i> ). Dose, 2 to 5 min. One to seven proof spirit makes Tinct. Colchici, B.P. .. .. .	2/0	7/0
Colocynth ( <i>Citrullus Colocynthis</i> ). Dose, 5 to 10 min. .. .. .	2/1	7/6
Conium ( <i>Conium Maculatum</i> ). Dose, 3 to 10 min. One to seven proof spirit makes Tinct. Conii, B.P. .. .. .	2/3	8/0
Convallaria ( <i>Convallaria Majalis</i> ). Dose, 10 to 20 min. .. .. .	2/6	8/6
Cotton Root Bark ( <i>Gossypium Herbaceum</i> ). Dose, 1 to 2 drachms. One to three proof spirit makes Tincture of Cotton Root Bark .. .. .	2/7	9/0
Cubebs ( <i>Cubeba Officinalis</i> ). Dose, 5 to 20 min. One to seven rectified spirit makes Tinct. Cubebe, B.P. .. .. .	3/6	12/0
Digitalis ( <i>Digitalis Purpurea</i> ). Dose, 2 to 5 min. One to seven proof spirit makes Tinct. Digitalis, B.P. Twenty-eight min. in 10 oz. distilled water makes Infusum Digitalis, B.P. .. ..	2/6	8/6
Ergot ( <i>Claviceps Purpurea, Ergot</i> ). Dose, 10 to 60 min. One to three proof spirit makes Tinct. Ergot, B.P. Quarter-oz. in 10 oz. distilled water makes Infusum Ergotae, B.P. .. ..	3/0	10/0
Eucalyptus ( <i>Eucalyptus Globulus</i> ). Dose, 15 to 60 min. .. .. .	2/3	8/0
Euonymus ( <i>Euonymus Atropurpureus, Wahoo</i> ). Dose, 1 to 1 drachm. Made from young bark .. .. .	2/7	9/0
Gelsemium ( <i>Gelsemium Sempervirens</i> ). Dose, 3 to 5 min. One to seven proof spirit makes Tinct. Gelsemium, B.P. .. .. .	2/7	9/0
Gentian ( <i>Gentiana Lutea</i> ). Dose, 1 to 1 drachm .. .. .	1/9	6/0
Ginger ( <i>Zingiber Officinale</i> ). Dose, 5 to 40 min. One to seven rectified spirit makes Tinct. Zingiberis, B.P. One to one rectified spirit makes Essentia Zingiberis, B.P. .. ..	2/6	8/6
Grindelia Robusta. Dose, 1 to 1 drachm .. .. .	2/6	8/6
Guaiacum ( <i>Guaiacum Officinale</i> ). Dose, 1 to 2 drachms. One to four Spirit Ammon. Arom. makes Tinct. Guaiaci Ammon., B.P. .. ..	2/6	8/6
Guarana ( <i>Paullina Sorbilis</i> ). Dose, 20 to 30 min. .. .. .	5/0	16/0
Hamamelis ( <i>Hamamelis Virginica</i> ). Dose, 1 to 10 min. One to nine proof spirit makes Tinct. Hamamelidis. Hazeline is the best form of this drug .. .. .	2/1	7/6
Hydrastis ( <i>Hydrastis Canadensis</i> ). Dose, 10 to 30 min. .. .. .	2/6	8/6
Hyoscyamus ( <i>Hyoscyamus Niger</i> ). Dose, 5 to 10 min. One to seven proof spirit makes Tinct. Hyoscyami, B.P. .. .. .	3/6	12/6
Ipecacuanha ( <i>Cephaelis Ipecacuanha</i> ). Dose, 5 to 60 min. .. .. .	3/6	12/6
Jaborandi ( <i>Pilocarpus Pennatifolius</i> ). Dose, 1 to 1 drachm. One to three proof spirit makes Tinct. Jaborandi, B.P. Half-oz. in 10 oz. distilled water makes Infusum Jaborandi, B.P. .. ..	2/6	8/6

## VALOID FLUID EXTRACTS—Continued.

	4-oz. Bots. each	1-lb. Bots. each
Jalap ( <i>Erogonium Purga, Jalap</i> ). Dose, 15 to 60 min. One to seven proof spirit makes Tinct. Jalape, B.P. .. .. .	2/0	7/0
Jamaica Dogwood ( <i>Piscidia Erythrina</i> ). Dose, 1 to 2 drachms .. .. .	2/3	8/0
Juniper ( <i>Juniperus Communis</i> ). Dose, 1 to 1 drachm .. .. .	2/3	8/0
Leptandra ( <i>Leptandra Virginica</i> ). Dose, 1 to 1 drachm. .. .. .	2/6	8/6
Lobelia ( <i>Lobelia Inflata</i> ). Dose, 3 to 5 min. One to seven proof spirit makes Tinct. Lobelia, B.P. One to seven Spirit of Ether makes Tinct. Lobelia Ether, B.P. .. .. .	2/0	7/0
Lupulus ( <i>Humulus Lupulus</i> ). Dose, 1 to 1 drachm. Half-oz. in 10 oz. distilled water makes Infusum Lupuli, B.P. One to seven proof spirit makes Tinct. Lupuli, B.P. .. .. .	2/7	9/0
Nux Vomica ( <i>Strynos Nux Vomica</i> ). Dose, 2 to 5 min. .. .. .	2/7	9/0
Orange Peel, Bitter ( <i>Citrus Vulgaris</i> ). Dose, 1 to 2 drachms. One to nine proof spirit makes Tinct. Aurantii, B.P. .. .. .	2/4	8/0
Podophyllum ( <i>Podophyllum Peltatum</i> ). Dose, 10 to 50 min. .. .. .	2/3	8/0
Pulsatilla ( <i>Anemone Pulsatilla</i> ). Dose, 2 to 5 min. .. .. .	2/7	9/0
Rhatany ( <i>Krameria Triandra</i> ). Dose, 1 to 1 drachm. One to seven proof spirit makes Tinct. Krameria, B.P. Half-oz. in 10 oz. distilled water makes Infusum Krameria, B.P. .. ..	2/1	7/6
Rhubarb ( <i>Rheum Officinale</i> ). Dose, 20 to 40 min. Quarter-oz. in 10 oz. distilled water makes Infusum Rhei, B.P. .. .. .	2/7	9/0
Sanguinaria ( <i>Sanguinaria Canadensis</i> ). Dose, 10 to 15 min. .. .. .	2/4	8/0
Sarsaparilla ( <i>Smilax Officinalis</i> ). Dose, 1 to 2 drachms .. .. .	2/3	8/0
Sarsaparilla Comp., U.S.P. Dose, 1 to 5 drachms .. .. .	2/3	8/0
Senega ( <i>Poligala Senega</i> ). Dose, 10 to 10 min. One to seven proof spirit makes Tinct. Senega, B.P. Half-oz. in 10 oz. distilled water makes Infusum Senega, B.P. .. .. .	2/6	8/6
Senna ( <i>Cassia Officinalis</i> ). Dose, 1 to 4 drachms. .. .. .	1/9	6/0
Serpentaria ( <i>Aristolochia Serpentina</i> ). Dose, 1 to 1 drachm. One to seven proof spirit makes Tinct. Serpentaria, B.P. Quarter oz. to 10 oz. distilled water makes Infusum Serpentaria, B.P. .. ..	2/6	8/6
Squill ( <i>Urginea Scilla</i> ). Dose, 5 to 60 min. One to seven proof spirit makes Tinct. Scilla, B.P. .. .. .	2/7	9/0
Stillingia ( <i>Stillingia Syleatica</i> ). Dose, 1 to 2 drachms .. .. .	2/6	8/6
Stillingia Comp. ( <i>Alterative Comp.</i> ) Dose, 1 to 1 drachm. MacDade's formula .. .. .	2/3	8/6
Stramonium Seeds ( <i>Datura Stramonium</i> ). Dose, 2 to 5 min. One to seven proof spirit makes Tinct. Stramonii, B.P. .. .. .	2/6	8/6
Taraxacum ( <i>Taraxacum Dens Leonis</i> ). Dose, 1 to 2 drachms .. .. .	1/9	6/0
Uva Ursi ( <i>Arctostaphylos Uva Ursi</i> ). Dose, 1 to 1 drachm. Half oz. in 10 oz. distilled water makes Infusum Uvae Ursi, B.P. .. .. .	2/0	7/0
Valerian ( <i>Valeriana Officinalis</i> ). Dose, 15 to 30 min. One to seven proof spirit makes Tinct. Valerian, B.P. One to seven Spirit Ammon. Arom. makes Tinct. Valerian Ammon. B.P. Half oz. in 10 oz. distilled water makes Infusum Valerian, B.P. .. .. .	2/0	7/0
Veratrum Viride ( <i>Hellebore</i> ). Dose, 2 to 4 min. One to four rectified spirit makes Tinct. Veratri, B.P. .. .. .	2/3	8/0
Wild Cherry ( <i>Prunus Virginiana</i> ). Dose, 1 to 1 drachm .. .. .	2/0	7/0

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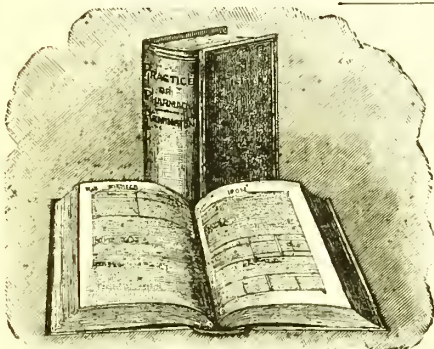
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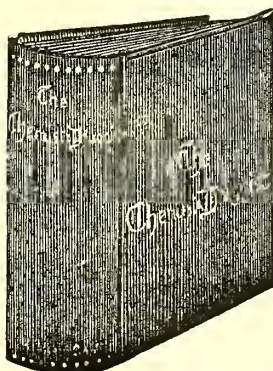
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THE reading cases which we offer to subscribers are not used by a very large number of chemists, and are found very convenient. They keep together thirteen numbers in very tidy form, always ready for reference. By having two cases in hand the numbers of a complete volume are always available until the time comes for binding. We send these cases at the price for 1s., or by parcels of 1s. 3d., or two for 2 3d. We cannot forward them to any house for enclosure, nor by any of the carriers, as in the latter case we have to pay for booking.



MR. F. W. BRIDGES, one of the publishers of *The Chemist and Druggist of Australasia*, will make a tour through the United States, from San Francisco to New York, in the autumn. He will be glad to call on American firms en route who wish to talk with him concerning the drug business in the Australasian colonies, and those who wish to have an interview with him should address letters to the care of

Messrs. John Taylor & Co., 112 to 120 Pine Street, San Francisco, Cal., or to the care of Mr. C. F. A. Hinrichs, 29 Park Place, New York.

## PARLIAMENTARY NEWS.

### CHEMIST TO THE NAVY.

ON Monday Sir Henry Roscoe asked the First Lord of the Admiralty "whether, in carrying out the policy of the Admiralty, as recently announced in that of inquiring into the circumstances of the appointment of a chemist to the navy, with a view of adjusting the salary to the requirements of the day, he will take care, in view of the importance of the post to the scientific development of the service, that the professorship is not degraded to a lectureship, and that the services of the best man available shall be secured."

Lord George Hamilton: Until I receive the report which has been called for from the Royal Naval College at Greenwich, I cannot undertake to say whether the chemist will be appointed as a professor or as a lecturer, but my endeavour will be to make whatever arrangements will conduce to the efficient performance of the duties of the office.

### THE SAMPLE POST.

IN the House of Commons on Monday the Postmaster-General, replying to Mr. Stephen Williamson, said the Inland Pattern and Sample Post was intended solely for the benefit of bona-fide trade patterns and samples of merchandise, and its use could not be extended to the public generally. But he was prepared, subject to the consent of the Treasury, to permit the return to the traders at the sample rates of packets of patterns, &c., forwarded by them to private individuals; and the manner in which such an arrangement could best be carried out was being carefully considered.

## POST-CARD COMPETITIONS, 1888.

### No. 7.



CONFERENCE season is approaching, and investigators, writers of papers, and others of that ilk are reminded of the fact by the appearance of the "blue list." Some may not know what the "blue list" is. For their benefit we may explain that it is a four-page quarto sheet issued by the committee of the British Pharma-

ceutical Conference, and containing about a hundred suggestions of subjects for investigation. The peculiarity of the list is that investigators never seem to take any hints from it; but that matters little, for additions are only made to the list about once in a decade or so. This is not as it ought to be, and to put, if possible, some life into the thing, we ask subscribers and assistants to tell us during this month what they consider to be the subjects which pharmacy would be the better of having more light thrown upon. The subjects must, of course, be pharmaceutical; for example:—

- (1) Suggestions on the putting-up of popular household remedies.
- (2) What is the best method of making cold cream?
- (3) How distinguish between annual and biennial henbane in the cut condition.

We do not restrict competitors to any one branch of pharmacy, but we ask them to suggest subjects upon which something profitable may be written in the space of a post-card. Nor will competitors be limited as to the number of suggestions; but we shall award one guinea to the most practical suggestion of all that may be received. A selection from these will be published in our first issue in August, as the basis of another competition, particulars of which will then be given.

Post-cards will be received up to Tuesday, July 31.



## Metropolitan Reports.

**SERIOUS CHARGE AGAINST A CHEMIST.**—Edward Thomas Gower, a chemist, of the Grove, Hammersmith, has been committed for trial on a charge of indecently assaulting a little girl, aged 13, who came to his shop for some soda-water. Bail was allowed.

**WOOLWICH ARSENAL LABORATORY.**—Sir Frederick Abel has been relieved by the Government of his active duties as chemist of the War Department, and has been appointed president of a Special Committee on Explosives just established by the Government, which includes Professor James Dewar and Dr. A. Dupré, with Captain Thompson, R.A., as secretary. The senior assistant chemist of the War Department, Dr. W. Kellner, succeeds to the charge of the Woolwich Arsenal Laboratory.

**OVERDOSE OF CHLORODYNE.**—A young woman named Emily Georgina Killick, residing as governess in a family at Wandsworth, died last week, according to the medical and other evidence, from an overdose of chlorodyne taken as a remedy for neuralgia. The chlorodyne was purchased from Mr. Bell, chemist, High Street. Dr. J. B. Howell, in his evidence, said he was of opinion that a representation should be made to the Privy Council to stop the sale of such drugs whereby people could either willingly or unwillingly take their own lives. A verdict of "Death from misadventure" was returned by the jury.

**CHEMIST TO MRS. GORDON-BAILLIE.**—One of the witnesses in the prosecution of Mrs. Gordon-Baillie, who has been committed for trial on charges of fraud, was Mr. Charles White, chemist, of Buckingham Palace Road, who deposed that on June 7 last Gigner (Mrs. Baillie's servant) brought a written order to his shop for goods to the value of about 10s., and gave out that he was from Mr. Frost, of Palmer Lodge [Frost is alleged to be the husband of the female prisoner, and is included in the charge.] He executed the order and was paid. On a subsequent occasion Gigner gave him another order, and obtained change for a cheque for 3*l.* 10s., which was dishonoured. Witness saw both Frost and the female prisoner about this cheque, and refused to leave the house till he was paid. After being put off with promises he told the prisoners that if he was not paid forthwith he would go to the Westminster Police Court and lay an information. On June 29, the day after he made this threat, Frost paid him and took away the dishonoured cheque. Cross-examined: He did not make a charge against either of the prisoners, and so far as he was concerned when he received his money that was an end of the matter. Mr. d'Eyncourt (magistrate) remarked that there was hardly evidence of false pretence in this case. Mr. Wontner (for the prosecution): It is evidence, sir, of part of the system that has been going on. To give a cheque on a bank where you have no account is uttering a false token. Surely when a person who has been guilty of fraud makes restitution under a threat of criminal proceedings it is nothing in his favour. This is part of the general evidence of the case.

**MYSTERIOUS DEATH AT A WALTHAMSTOW CHEMIST'S.**—The coroner for South Essex, on Wednesday, opened an inquest at Walthamstow upon the body of Annie French, who was found, on Saturday, unconscious at a chemist's shop in Markhouse Road, Walthamstow, and who died on Sunday, in spite of all efforts to restore her. The shop where deceased was found belongs to Mr. Edmund Harry Hamilton, whose chief pharmacy is about three-quarters of a mile distant. The branch business was managed by Mr. William Barber, who had been in Mr. Hamilton's employ nearly two years. It appears that on Saturday afternoon last Barber sent his errand boy, F. Playle, to a Mrs. French, residing at 203 Boundary Road, Walthamstow, as the bearer of a note, instructing him before he started not to deliver the epistle to any other person. The lad went to the address indicated, but Mrs. French being accompanied by her husband, he, making some excuse, returned to his master. In a short time Barber sent the lad back with the note to Mrs. French, who was then alone. She read the note and replied "Yes." The lad, on his return, gave Barber this answer, and was sent for a shilling's worth of brandy. Mrs.

French arrived at the shop shortly after his return with the spirits. This was about 3.15 o'clock. Barber told Playle that he might go home, which he did. Playle returned at 6 o'clock and found the place closed and fully secured as at night. Having failed to gain an entrance by the front door, he sealed the wall which separates the garden from the footpath in Prospect Place, and entered the house by the back door. He knocked at the door of the parlour, but received no answer. He then opened the unlocked door and entered. The room was unusually dark, and on a sofa near the window sat Mrs. French in a reclining position. The lad hastened to fetch assistance. He went to a butcher named Patchet next door and got him to go and see Mrs. French. He felt her pulse, and as she was unconscious he fetched a grocer named Drummond, who decided to procure medical assistance. Dr. Thorpe was soon in attendance. He detected a smell of chloroform emanating from the woman's throat, and subsequently found that she was suffering from chloroform poisoning. In the room were a 10-oz. bottle of chloroform containing about an oz., bottles of sal volatile, carbolic acid, toothache tincture, a bowl of water and a brandy flask. Her face was very much puffed up and her breathing very difficult. He administered ether and other remedies, and resorted to artificial respiration until about ten o'clock. As no signs of animation were apparent, Dr. Blight was summoned, and he performed the operation of tracheo-



tomy. She was somewhat relieved as far as her breathing was affected, but did not regain consciousness. An incident in connection with the affair is that, notwithstanding the extraordinary conditions under which the woman was found, it did not occur to any of those present to send for the police. About midnight, however, the police became acquainted with the affair, and Police Superintendent Craggs arrived at the house and immediately sent for one of the divisional surgeons, Dr. Chambers. Throughout the whole of Saturday night and Sunday the medical men continued without intermission to administer every conceivable remedy to Mrs. French, but apparently without any perceptible improvement in the woman's condition. It was not until after midnight that the police, while searching the house, discovered that a robbery had also been perpetrated, apparently by Mr. Barber. The till had been rifled, and from 12*l.* to 15*l.* in gold, silver, and copper abstracted. The assistance of several officers was obtained from the Lea Bridge Road Police Station, and diligent search was made for the missing chemist, but without avail. In the meantime, the endeavours to restore Mrs. French were continued persistently, and to restore animation by artificial respiration, while the doctors applied all known remedies. Shortly before midnight, after lying unconscious for thirty-two hours, Mrs. French died. Her



lots were not disarranged, except about the throat. She ceased to be pregnant, and there was no appearance of any violation or attempt at it. Her teeth were very badly decayed, but nothing apparently had been done for them, nor were there any dental instruments about the place. Death probably arose from inhalation of chloroform, there being no signs of that drug having been swallowed. The inquest has been adjourned for a fortnight to allow of a chemical analysis of the intestines, which is being carried out at a London Hospital. At present nothing is known of Barker's whereabouts. The accompanying portrait of him is from a photograph supplied to us by Superintendent Glass, of the Criminal Investigation Department, Stoke Newington Police Station, who will be glad of any information about the missing man. Barber is described as follows:—"Aged 35 years, chemist's assistant, height 5 feet 8½ inches, complexion, fair and moustache fair, near-sighted, dressed in a gray jacket, dark trousers, and hard felt hat. He is splay footed." No one in the district appears to have seen him leave Walthamstow. He was, it is understood, a native of Hitchin, but possesses no British qualification in pharmacy. He has been for a considerable period in the States, where he took his diplomas, which are stated to be very creditable. These have been seized by the police with all his correspondence, which promises to reveal a startling state of things in the past. One document, which is written by a young woman in very effeminate terms, contains a paragraph to the following effect:—"My head is better, but my legs ache. You need not name any more pills. I am glad I have got all right now." He appears to have indulged somewhat freely in alcoholic liquors lately, and his friends think him likely to have committed suicide. On the other hand, he had opportunity to leave the country before the police could get upon his track. He possessed Mr. Hamilton's confidence, who states that he can tell him with an excellent character, having previously passed a chemist at Sutton, whose name, Mr. Hamilton informed our representative, he could not remember. Mr. Hamilton had been away for a holiday (leaving a qualified man in charge of the principal shop), and he only returned 16 hours before this unfortunate occurrence.

## Provincial Reports.

*Copies of news, and newspapers containing matters of interest to the trade, sent to the Editor, will much oblige.*

### BIRMINGHAM.

**EARLY CLOSING MOVEMENT.**—Many of the leading chemists have agreed to close one afternoon weekly providing all do, and after a personal canvass of about twenty pharmacists in the centre of the town, it seems probable that we shall have an attempt to get a general closing.

**ALLEGED FRAUD ON THE EXCISE.**—The Excise officers claim to have discovered, on premises belonging to Messrs. Henry Stephenson & Sons, wine and spirit merchants, a vault containing several stills, in which they believe illicit distillation has been carried on. It is said the firm are to be prosecuted. Messrs. Stephenson & Son state that they had let the vaults in question to a man named Thompson, who had paid the quarters' rent in advance, and that they did not know what use Thompson had made of the cellars.

### DUBLIN.

**PHARMACEUTICAL SOCIETY OF IRELAND.**—*July Examinations.*—Passed Preliminary: Messrs. Crawford, Whelehan, Cary, Hayes, Cahir, Jones, Robson, Garry, Warren, Wood, Gill, Hoey. Nine were rejected. Passed candidates for the License: Messrs. Walsh, Montgomery, McBride, Pearse, Lee, Eggleston, Scott, O'Donnell. Four were rejected. [The names of the licentiates were published in this journal last week.]

### HARTLEPOOL.

**CARBOLIC ACID POISONING.**—A coroner's inquest was held on the last Saturday, regarding the death of a little girl named

Ada Waddington, from the effects of a draught of carbolic acid. In the course of the evidence it transpired that the Inspector of Nuisances had supplied the acid to the child's mother as a disinfectant, and that while her mother was out of the room she drank it. The jury returned a verdict of "Death from Misadventure," adding a recommendation that in future a register be kept of all disinfectants similarly supplied.

### LEEDS.

**A SURGEON CHARGED WITH FRAUD.**—At the Yorkshire Summer Assizes, held at Leeds on Tuesday, George Fernley Atkinson, surgeon, Snaith, was charged with having, within four months of the presentation of a bankruptcy petition by himself, made certain false entries in a written document affecting or relating to his affairs, at the city of York, on January 30, 1888. Under second and third counts, he was charged with obtaining credit to the extent of 65*l.* and a cheque for 30*l.* from Jonas Boothroyd with intent to defraud. Evidence was given at considerable length, and after the summing up the jury retired, but could not agree to a verdict, and were accordingly discharged.

### LEICESTER.

**CHEMISTS' ASSOCIATION AND THE BOTANIC GARDENS.**—The members of this association visited the Abbey Park on Thursday afternoon, July 19, to inspect the botanical garden now being laid out there for the use of students and others. Mr. Councillor Mott, F.G.S., kindly accompanied the party and described the various specimens of interest to those present, and Mr. J. Burn rendered valuable assistance in explaining many rare and curious plants. The botanical beds, twenty-four in number, will be completed next year, and will contain specimens illustrating the various natural orders of plants. In the centre there will be a fountain and aquatic plants. At present there are a large number of economic plants in the park, and these are of special interest to students of botany, &c. As illustrating the difficult nature of the duties performed by the gardeners, one circular bed near the pavilion contains 12,500 separate plants, independent of mosses. A hearty vote of thanks to Mr. Mott and Mr. Burn brought a very enjoyable afternoon to a close.

### MANCHESTER.

**PATENTS, DESIGNS, AND TRADE MARKS BILL.**—The Local Chamber of Commerce have resolved to petition the House of Commons against the proposed registration of "fancy" words as trade marks. The Bleachers' Association are preparing a similar petition.

### MARGATE.

**MAGNIFYING HIS OFFICE.**—Mr. Herbert Ray, of Cecil Square, in the course of an advertisement in a local paper, bursts forth into the following rhetoric on the subject of his "dispensing offices." "A dispensing department," Mr. Ray says, "is but a formal division, not a substantive separation. Still, in the shop it is a part of the shop, sharing with other departments a divided attention, and exposed to hurry, hindrances, and distractions, incompatible with the composure and collectedness perpetually in request to support responsibilities incessantly taxing the attention. Separate in fact as well as in form, from a dependent part, my dispensing department rises into an independent whole, and commands, perforce, an entire attention. Its responsibilities, no longer divided and dissipated by the diversions of business, press with greater weight; and its organisation, freed from the entanglements of trade, shoots out to its full size, and spreads safeguards and completeness through the entire system."

"My arrangements for the reception, preparation, and delivery of prescriptions, are such as must give entire satisfaction to both parties—physician and patient—to whom responsibility is due. As respects quality, the crude drugs are uniformly picked parcels, and the preparations are diligently garnered from every quarter where a manufacturer is found to excel in the production of any particular article; while those medicines prepared in my own laboratory have



the benefit of a parental interest. No expenditure of pains or cost is spared to render the quality of its medicines consonant with the pretensions of an establishment which, with a full sense of how much is implied and may be expected, deliberately proposes the problem:—To how high a pitch of perfection can the business of dispensing be carried?"

#### SHEFFIELD.

**FISH POISONING.**—In the Sheffield Police Court on Saturday last, two men were committed for trial at the assizes for poisoning fish with chloride of lime at Bradfield. During the examination of Mr. Chattaway, chief assistant to the borough analyst, some interesting examples of forensic chemistry were exhibited. One counsel wanted to know if chloride of lime was a compound of lime and sulphur. Another asked if the fact of it being found in the gills did not go to show that it had been added after death to "cure" the fish.

#### SCOTLAND.

##### EDINBURGH.

**THE GENERAL MEDICAL COUNCIL** have resolved to recognise the leaving certificates issued by the Scottish Education Department *pro tanto* in lieu of the corresponding subjects of the examination for registration as medical students.

**ANOTHER SUPPOSED ERROR** on the part of a chemist was reported to the police at the end of last week. A family of well-to-do tinkers feeling out of sorts, resolved to dose themselves with herb beer, and procured some horehound from a chemist. The brew was made, and five persons partook of it. Soon afterwards symptoms of poisoning showed themselves, and after vomiting a good deal the patients were removed to the Royal Infirmary, where they recovered in the course of the day. The police are trying to ascertain what the "horehound" was.

#### FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

**M. GIRARD**, formerly a pharmacist at Schirmeck, Alsace, after several months' detention in the Imperial prisons, on some charge of high treason or other, was last week set at liberty, and given three days to leave Alsace-Lorraine for ever.

**SALT WATER FAUNA.**—By Presidential decree the old lazaretto at Tatihou, near St. Waast-la-Hougue (Manche), is to be turned into a laboratory of maritime zoology. The new institution with its formidable Celtic names will be an annex of the Paris Museum of Natural History.

**BORDEAUX** is now exultant over the prospect of securing the Military Medical School, because Dr. Dujardin-Beaumez is there on an inspecting tour, surveying the various buildings offered by the city for the future institution. But it seems Nancy has already been thus visited, and Lyons, and Toulouse, the other candidates will also receive the same favour from the official inspector.

**THE TUBERCULOSIS CONGRESS** began its session on July 25, at the Paris School of Medicine. The smaller amphitheatre, where the organisation sitting is held, accommodates 200 or 250 persons closely packed, and the larger one three or four times as many. Several English veterinary colleges are represented, tuberculosis in animals being considered an important feature of the coming Congress.

**A GRAND SCIENTIFIC CONGRESS** is to be held next year, during the International Exhibition. The Minister of Commerce and Industry has already appointed a small army of distinguished scientists members of the various organising committees, although only the sections of dermatology and syphilology, electricity, hydrology and climatology, hygiene, photography, physiology, therapeutics, and zoology have been so far provided for. Among the many names, the following well-known in pharmacy and chemistry may be noticed. MM. Dr. Bardet, of the *Nouveaux Remèdes*; Blondel, secretary of the Therapeutic Society; Mare Roy-

mond, Delpesch, Mayet, Petit, and Vigier, of the Paris Pharmaceutical Society; Berthelot, a former professor at the College; Milne-Edwards a professor now, and Joannès Chatin, a fellow of the same institution.

**DEBRAY, JULES-HENRI**, a noted French chemist, died on July 19, after a very short illness. He was born in 1827, and having chosen a scientific career, became doctor of sciences in 1855, and filled the chair of chemistry in several colleges, superior schools and faculties. In 1877 he was elected to the Academy of Sciences, in place of Balard, the discoverer of bromine, for the section of chemistry. Most of Professor Debray's scientific works were performed in collaboration with Henry Sainte Claire-Deville, and related to osmium, iridium, platinum, aluminium, &c. He was also the author of a well-known elementary treatise on chemistry, as well as works on the principal sources of light, platinum and allied metals, metallurgy, &c. At the time of his death M. Debray was a professor at the Sorbonne faculty of sciences, lecturer at the Paris superior normal school, assayer at the Mint, and an officer of the Legion of Honour.

**A CONJUGAL TRAGEDY.**—M. Maximy, a pharmacist at Arzew, Algeria, doubted his wife's faithfulness—not without good reason, it is said. One day, last week, on returning from town where he had taken his children to school, his wife poured for him a glass of wine, while she drank herself from another bottle. Soon after swallowing the liquid he experienced nausea, vertigo, and intense burning. But on going to his room he found an opened bottle of aconitine, and was convinced his wife had attempted to poison him. So, grasping a revolver he rushed to the room where he had left her, and crying out that it was in vain she had tried to get rid of him, as she should die first, he fired five shots at her and killed her on the spot. Then he swallowed "a quart of oil, salted coffee, and soap and water"—so says the local paper—and while in a fainting condition, whether from the poison or the antidote is not stated, he was taken to the hospital.

**PHARMACEUTICAL LEGISLATION.**—The Chamber of Deputies, at its sitting of July 17, took into consideration several Bills of pharmaceutical interest. Although none of the votes taken are final, they are of some importance as they show the drift of opinion in Parliament. The Bill on Military Medical and Pharmaceutical Schools (*Ecoles de Santé militaires*) was first discussed. Section 1 provided for the establishment of one such school, to replace that formerly located at Strasbourg. An amendment to have two schools, one at Nancy and one at Bordeaux, was lost, the section, as adopted, enacting that one school shall be established at a place to be hereafter selected by the Minister. According to section 2 said school shall be open from October 1, 1888, and the admittance conditions be determined by the Minister of War. Section 3 provided that students graduated from the school, and holding diplomas of either doctor of medicine or pharmacist of the first class, shall by right be admitted to the Val-de-Grâce application school. But an amendment offered by MM. Legludic, Treille, Labrousse, and Dellestable, and accepted by the commission, struck out the words "pharmacist of the first class." It does not follow, however, that pharmacists shall be excluded from the army; it only means the war department will not attempt to educate them, as Section 4 says that the Val-de-Grâce school shall, as heretofore, admit a certain number of young men, graduated Doctors of Medicine or pharmacists of the first class in the ordinary civil schools, under conditions to be every year determined and published by the Minister of War. Said young men shall, as well as graduates of the military medical school, engage themselves upon their honour to serve at least six years. And Section 5 grants a yearly appropriation of 221,465*fr.* for the maintenance of the institution. The bill as a whole passed its first reading by a vote of 475 to 37. Another measure considered at the same sitting was the Naval, Medical and Pharmaceutical School Bill. Considerable divergence of opinions being manifested, all action was postponed for the time. And, finally, M. Letellier reported favourably M. Duval's Pharmacy Bill, which was ordered to be printed and distributed. M. Duval, a deputy for Savoy, is a pharmacist, and his measure embodies the long-hoped for pharmaceutical legislation. The Bill, which has been several years pending before the Legislature, has suffered from a varied complication of amendments, and now has been called up just when Parliament is about to adjourn.



# GERMAN PHARMACEUTICAL NEWS.

(From our Berlin Correspondent.)

**SULPHONAL.**—A testimony to the increasing reputation of sulphonal is the fact that a "sulphonal chocolate" is being introduced by a firm of manufacturing confectioners—though from medical point of view such a course is scarcely commendable. Several additional papers have been published on its therapeutical effects, among which that of Professor Kast is noteworthy. He traces the somewhat considerable lapse of time which ensues before the remedy exerts its soporific influence to its comparative insolubility. Making experiments with water, with common salt solution, with an artificial gastric juice, and with the latter containing an excess of peptones all at the blood heat, he found it required for action respectively 450, 250, 200 and 100 parts. From these results the inference is clear that if the remedy is to be rapidly absorbed and therefore rapidly effective, it must be given in considerable quantities of warm liquids. Martin recommends sulphonal as reducing night sweats and increasing sleep in 8-grain doses for phthisical patients, while Lema records excellent results from the administration of 15-grain doses in asthma which morphine and chloral failed to relieve. Dr. Schmey states that 30 grains given to an aged patient (61 years old) suffering from angina pectoris increased the symptoms of that affection, and therefore draw attention to its contra-indication in such cases. Dr. Fraeßel, from nearly one hundred trials of sulphonal Riedel in cases of abnormal sleeplessness, in the usual doses, concluded that its effects were not always equal. In some cases the influence of the remedy was exerted in an hour, while in others it was observed only after the lapse of two or three hours.

**LIANIN.**—In the *Munich. Medicin. Wochenschr.* Marplan publishes the results of his researches on the emulsifiable properties of fats and of lipanine specially in the stomach or the fluids thereof. He found that all fats, including the cod-liver oil substitute, separated immediately agitation was stopped, while cod-liver oil itself formed a fairly permanent emulsion. This result cannot be regarded as promising for lipanin, of which the *Berlin. Clinisch. Wochenschr.* sarcastically observes that the adjustment of the price to the expenses of advertising and printing must be "the considerable technical difficulties" said to be associated with its manufacture.

**ICHTHYOL.**—In the last-named journal Dr. Meyer records almost the only cases in which ichthyol has been yet reported to fail as an antirheumatic. His sixteen patients were old women in a Berlin asylum, and in only two was any benefit observable. Dr. Laurentz, on the other hand, using 0.1 gramme doses of sodium-ichthyol, found it to be effectual even when other remedies failed, and Dr. Blittersdorf cites a number of cases of nephritis, in which pills of the same compound benefited chronic cases of many years standing.

**GLYCERINE ENEMATA.**—The extensive use of glycerine enemata has led to the suggestion by Boas in the *Deutsch. Medicin. Wochenschr.* of hollow conical suppositories made to contain 15 grains of glycerine. One of these is said to be satisfactorily effectual.

**CHLOROFORM SOLUTIONS.**—Professor Unna suggests the employment of chloroform for the preparation of solutions generally and those for hypodermic injection in particular. He believes that chloroform water may, with advantage, be added to the menstruum in such liquors as Fowler's solution, and for liquor. morphin. hypoderm., which latter may be injected with less pain than accompanies the operation generally.

**MEDICAL ADVERTISING.**—One Berlin doctor described another as a swindler and a quack. The injured medico appealed to law, when the accused attempted to justify his libel on the ground that the plaintiff exhibited a conspicuous sign outside his residence; and also that he advertised in the lay papers, and published testimonials from persons who had been cured by him. The Court considered that whatever might be the judgment of professional ethics on the practices of the plaintiff, they could not be held to justify the libel, and the defendant was therefore fined 150 marks ("10s.).

**KOLA.**—An article published in a German daily paper on the uses of kola has drawn a commentary from the well-known African traveller, Adolf Krause. Krause is of opinion that there is only a small demand for the drug in Europe, which is not likely to increase, as it would be difficult for a new nutrient beverage to command the field in the presence of such well-established rivals as cocoa, tea, and coffee. Only if it were very cheap would such a result be possible; and this condition he regards as unlikely, as the article is very highly esteemed by the natives—a statement which he supports by quoting various prices at which it is sold there. Krause also reminds readers that a German factory had made an attempt to introduce kola chocolate without satisfactory results. The opinion prevalent on the Continent that Europeans eat kola when in Africa is contradicted, it being asserted that they only do so when nothing else is to hand. The traveller says that he himself has tried it in all kinds of preparations, including the fresh drug, and the same when roasted like coffee, but he never derived any great pleasure or benefit from its use.

**SPIDER POISONS.**—Professor Breeger has recently investigated the poison of spiders. He found that the Russian varieties of spiders known as Phalangium and Trochosa (Tarantula) were destitute of poisonous qualities; but that a third, called Caracurt, or "the black wolf," secreted a powerful poison, which formed 25 per cent. of its whole weight. The substance was a peculiar unstable albumenoid body, destroyed by a heat indicated by 60° C., or by alcohol. One-thirtieth of a milligramme per kilogramme of the animal treated was found to be sufficient, when directly introduced into the circulation, to kill warm-blooded animals. Thus this poison exceeds in power all known vegetable principles and prussic acid, and can only be compared in toxicity with the poison of snakes.

**HYDROXYLAMINE (NH<sub>2</sub>OH)** was discovered in 1865 by Lossen, who obtained it in the form of definite crystals by the action of nascent hydrogen on nitric acid. The poisonous properties of this ammonia-like body have been investigated by Professor Binz (*Virchow's Archiv.* July), who, from a number of physiological experiments, considers that its pronounced reducing properties will be available in dermatology, where chrysarobin and pyrogallol acid are now employed. As it does not produce any staining of the skin or of fabrics, it would be preferable in use to the compounds named.

## MARRIAGES.

[Notices of Marriages and Deaths are inserted free if sent with proper authentication.]

**BELL—KENT.**—On July 19, at Holy Trinity Church, Boston, Edward Wightman Bell, F.S.Sc. (Lond.), of Spalding, chemist and druggist, younger son of Mr. Edward Bell, of Doncaster, to Alice, elder daughter of the late Mr. Benjamin Kent, of Boston.

**BROWN—STEWART.**—On June 13, at 9 Kinloch Place, Dundee, by the Rev. William Smith, Andrew Brown, jun., Dunfermline, to Jane Durham, eldest daughter of Mr. R. G. Stewart, chemist and druggist, late of Edinburgh.

## DEATHS.

**COOKSON.**—On July 2, Mr. Frederick Cookson, chemist and druggist, Rainhill, near Liverpool. Aged 41.

**COWBURN.**—On July 6, Mr. William Cowburn, chemist and druggist, Normanton. Aged 60.

**KEMP.**—On July 2, at Alton, Mr. Robert Kemp, pharmaceutical chemist, of Holloway Road, London. Aged 79.

**APOLLINARIS WATER.**—The United States Consul at Dusseldorf states that a contract was recently entered into between the Apollinaris Mineral Water Company and one of the largest German manufacturers of glass bottles for the delivery during one year of 19,000,000 bottles at the price of 58s. per 1,000 large (quarts) and 75s. per 1,000 small (pint) bottles, less 2 per cent. discount.



## Pharmaceutical Society of Great Britain

## JULY EXAMINATIONS.

## LONDON.

THE Board of Examiners met at 17 Bloomsbury Square, W.C., on July 10-13 and 17-19, when the following candidates were successful:—

*Major Examination* (for registration as Pharmaceutical Chemists).

Beck, Jno. Wilson, Morecambe  
Carter, Benjm., Falmouth  
Orook, Geo., Southport  
Davis, Hy. Baker, Swansea  
Doble, Hy. Tregellas, London  
Evans, Edgar Michael, Cardiff  
Evans, Jno., Neyland  
Heaton, Simon Wood, Leeds

Long, Alex. Jno. Temlett, Bristol  
Lucas, Edwd. Wm., Ashbourne  
Morris, David, Kidwelly  
Salter, Wm. Appleton, Scarborough  
Vallance, Arthur Clayton, Mansfield  
Want, Wm. Philip, Lee  
Wright, Jno., Macclesfield

*Minor Examination* (for registration as Chemists and Druggists).

Arden, Lawrence, Bourne  
Atkinson, Leonard Joseph, Greenwich  
Ayriss, Harry Chas., Nottingham  
Bell, Jno. Hy., Windsor  
Bewers, Fredk. Jno., Loxden  
Dice, Jas., St. Ewe  
Blott, Hugh Russell, Bristol  
Boyes, Wm. Jerome, Malton  
Briggs, Thos., Halifax  
Bromwich, Thos., Dudley  
Brown, Lincoln, York  
Burnett, Geo., Gt. Broughton  
Cain, Hy., London  
Carman, Fredk. Hy., Lowestoft  
Cox, Herbert Victor, Southampton  
Cox, Wm. Francis, Hipperholme  
Douglas, Jas. Wellesley, London  
Down, Frank Walter, Sittingbourne  
Dring, Hy., Hingham  
Dysou, Archibald, London  
Eynon, Chas. Jas., Leamington  
Filtness, Chas., Ramsgate  
Fryer, Chas. Jno., Warwick  
Glover, Thos. Jno., Cambridge  
Goold, Bruce, Cardiff  
Griffith, Wm., London  
Hall, Allen Joseph, Coventry  
Harry, Saml. Rhys, Swansea  
Haythway, Fredk. Hy. Wm., Lydney  
Hathorn, Thos. Rebanks, Plymouth  
Heuley, Geo., Lyme Regis  
Hitchman, Walter, Kettering  
Holt, Herbert Collins, Bowdon  
Horsley, Edwd., Smallbrook, Manors  
Imman, Thos. Leonard, Batley  
Jones, Jas., Liverpool

Jones, Joshua, Newcastle Emlyn  
Knaggs, Chas. Marshall Robert, Upweatham  
Lewis, Richd. Geo., Carmarthen  
Longdin, Thos. Wm., Wakefield  
McKenzie, Jas., Perth  
Marsden, Edwd. Geo. Leace, Preston  
Mason, Edgar, York  
Masters, Hy., Buxton  
Moody, Wm. Morton, Salisbury  
Mossop, Hy., Whitehaven  
Norton, Edwd. Thos., Stow-on-the-Wold  
Northwood, Hy. Geo., Leytonstone  
Ogle, Jno. Hy., London  
Ough, Lewis, Plymouth  
Parkinson, Wm. Armor, Preston  
Parry, Jno., London  
Patchett, Jno., Halifax  
Pepperdine, Harry, Peterborough  
Phillips, Wilfred Chas., Stevenage  
Pring, Chas. Herbert, Bristol  
Ratcliffe, Saml., Southport  
Reid, Chas. Stewart, Aberdeen  
Rowe, Frank, Ilfracombe  
Smart, Thos. Willis, Reading  
Smith, Chas. Bond, Potton  
Stuart, Wm., Preston  
Sturton, Jno. Gilbert, Peterboro'  
Tharratt, Geo. Row, Louth  
Turnbull, Hy. Jno., Darlington  
Turner, Wm. Hy., Workson  
Walker, Francis, Everton  
Watt, Jas., Haverfordwest  
Westhead, Wm., jr., Stafford  
Willows, Herbert Geo., Doneaster  
Yates, Geo. Danson, Preston

*Preliminary Examination.*—The Board received the report of the College of Preceptors on the examination held July 10 [the questions given thereat will be found in our issue of July 14]. This showed that out of 391 candidates examined, 180 had failed and 211 had passed. The following are the names and addresses of the successful candidates:—

Alecock, William, Sheffield  
Anderson, Alfred L., London  
Anderson, David, Perth  
Angel, Lorenzo V., Birmingham  
Ashton, Henry M., London  
Auld, William, Liverpool  
Baker, Henry C., Bath  
Bate, Walter H., London  
Baty, William J., Newcastle-on-Tyne  
Bayliss, Walter, South Shields  
Becher, George C., West Bromwich  
Belamy, Winter G., Creleston  
Black, James, Dumfries

Blankley, Frank F., Arnold  
Boothman, Fredk. J., Hindley Green  
Booth, James V., Torry  
Booty, Clifford W., London  
Power, William H. B., Oxford  
Bowker, John T., Farnworth  
Boyd, William G., Dysart  
Brier, Frederic G., Leicester  
Bristow, Ralph P., High Wycombe  
Brown, John, Edinburgh  
Burns, John M., Edinburgh  
Bush, James E., Dunmow  
Caldwell, John, Kirkintilloch  
Christie, George, Dunfermline

Cocker, Lewis A., Ripponden  
Cowie, Wm. B., Mains of Newrain  
Crofts, John L., Walsall  
Cumber, William J., Guernsey  
Cunningham, William, Edinburgh  
Cunningham, John, Ayr  
Dalrymple, Thomas, Whitehaven  
Darch, Ernest, London  
Davidson, Albert E., Seaham Harbour  
Davies, Daniel, Talley  
Davies, David, Llanawel  
Davies, Ellis J., March  
Davies, John W., Llangollen  
Davies, William, Greenock  
Denton, James, Hemsworth  
Dewhurst, William, Blackburn  
Dey, Alexander J., Edinburgh  
Dhividdie, Edward J., Dumfries  
Donthwaite, Fred, Beverley  
Drahble, Fred P., Rotherham  
Edwards, Wilfrid B., London  
Elder, David, Peebles  
Ellwood, Michael J., Brighton  
Fairhurst, William, Wigan  
Fairweather, James Y., Forfar  
Fall, George, Ripon  
Faulkner, William, Newark  
Faye, Thomas W. de, Jersey  
Ferguson, Howard, Chesterfield  
Fitt, Fred, Norwich  
Fletcher, Herbert P., Seunthorpe  
Forbes, John J., Buckie  
Fergie, William B., Falkirk  
Gammie, John L., Cullen  
Gardiner, John A., Bridgworth  
George, William G., Cardiff  
Girvan, Alexander, Maybole  
Goring, James F., London  
Gower, Thomas H., Kidwelly  
Green, Walter J., Frome  
Greenhalgh, Edmd. P., Bolton  
Gregory, John J., Bredbury  
Griffiths, David T., Neath  
Hall, James L., Kelvedon  
Hammond, William H., West Burton  
Harrison, Fred, Ramshotton  
Hawes, John G. H., Chichester  
Haworth, John E., Guernsey  
Hearnshaw, Frank O., Spalding  
Hebden, Harry, Bradford  
Henderson, Fredk. E., Gosforth  
Henderson, Robert, Carlisle  
Herald, Walter O., Godley  
Herrod, Matthew, Lincoln  
Hirst, John H., Chesterfield  
Hocking, Arthur H., Liskeard  
Hodge, Ernest, Devonport  
Holgate, Albert, Burnley  
Holliday, Solomon, Maryport  
Hooper, Joseph, Okehampton  
Hors, Tudor T., London  
Hoskins, Augustus S., London  
Howell, Gwilym H., Brecon  
Hudson, Sutherland, Dumbarton  
Hughes, Thomas J., Bethesda  
Hughson, Alexander S., Bath  
Humphrey, William H., Romford  
Isaac, Herbert K., Clifton  
Jacoby, James S. R., Barton-on-Umber  
Jarvis, John, London  
Jarvis, Richard M., Brighton  
Jenkins, Hugh L., Llanelli  
Jeremiah, Tom C., Newcastle Emlyn  
Jesson, George P., Leeds  
Johnson, Thomas, Bilston  
Johnstone, William S. L., Coventry  
Jones, Frank H., Scarborough  
Jones, Thomas, Rhiwrydyr  
Keast, William A., Aberdare  
Kinsman, William E., Devonport  
Knight, Angus A., Bradford  
Lambert, William, Kidderminster

Le Poidevin, Ernest J., Jersey  
L'Estrange, Louis J., Norwich  
Lightfoot, William, Wigton  
Lovibond, James J., Plymouth  
McKellar, Henry L., Falkirk  
McLennan, Kenneth W., Lochbolale  
McOwat, John H., Glasgow  
Mansell, Thomas C., London  
Maries, Charles A., Liverpool  
Marsden, Joseph Y., Blackburn  
Marshall, John T., Derby  
Melville, John, Edinburgh  
Miller, Harry, Carlisle  
Milne, Alexander M., Aberdeen  
Moat, Henry, Newcastle-on-Tyne  
Mandy, Albert E., London  
Murchie, John, Girvan  
Murnaghan, Arthur W., Southampton  
Neeson, Horace J., London  
Neil, Henry, Stirling  
Neilson, Richard, Glasgow  
Newey, Thomas, Chesterfield  
Norgate, Charles E., Great Yarmouth  
Owen, William E., London  
Owens, Thomas, Narberth  
Paternoster, William C. T., Cirencester  
Peacock, William E., London  
Powell, Daniel E., South Stockton  
Price, Charles H., Cokerminster  
Prior, Samuel, Cokerminster  
Pritchard, Robert J., Old Swinon  
Pritchard, Thomas, Clynog Fawr  
Pugh, Edward L., Leeds  
Rees, John, Pentrechwyth  
Reynolds, John, Tuxford  
Richard, Charles, Hayle  
Richardson, David B., Edinbargh  
Roberts, Edward, Bala  
Roberts, Rees R., Blaenau Ffestinog  
Robinson, William S., Barrow-in-Furness  
Robson, Joseph F., Bishop Auckland  
Robson, Nicholas W., Allendale  
Robson, William F., Ardelach  
Roe, Alfred, Wolverhampton  
Rollin, Arthur S., Durham  
Rook, Moses, Maryport  
Roper, Albert C., Norwich  
Rose, James D., junr., Jarrow-on-Tyne  
Rossiter, Charles B., Amlwch  
Rossiter, Samuel, Paulton  
Royal, Andrew, Aberleean  
Sandford, Harry M., Manchester  
Scott, Walter, Berwick-on-Tweed  
Shand, James, Dunfermline  
Shaw, James E., Leeds  
Shepherd, Herbert W., Bradford  
Shuttleworth, Thomas R., London  
Skeates, Frank, Bath  
Smedley, Thos., Hneknall Torkard  
Smedley, Walter G., Northampton  
Smith, John T., Gateshead  
Smith, Percy D., Brighton  
Sowray, Walter, York  
Spicer, Malcolm, East Molesey  
Springett, Basil C. W., London  
Stanley, John, Goole  
Stevenson, James R., Montrose  
Sutton, John E., London  
Tatler, Albert E., Hanley  
Taylor, Herbert, Netherton  
Terry, Edmund O., London  
Thomas, Chas. H., Shepton Mallett  
Thomas, William J., Dorringtona  
Thomson, Robert, Buckhaven  
Thorne, Alfred J., Tunbridge Wells  
Thwaites, Alfred, Ryde  
Tickle, Thomas, Exbourne  
Tooke, Harry, London  
Trick, Walter H., Shebbear



Turner, Walter F., Norwich  
 Venha, Arthur W., Portsmouth  
 Walker, Albert S., Kendal  
 Walker, George, Insch  
 Walker, Vernon, Sheffield  
 Wharrie, Thomas B., Naburn  
 Whitfield, Albert H., Harrogate  
 Wilcox, Ernest L., Ironbridge  
 Wilford, Frederic W., Lincoln  
 Wilkins, James H., Preston  
 William, Alfred, Clifton  
 William, David, Carmarthen

Williams, David L., Llanwrtyd Wells  
 Williams, John, Bagillt  
 Williams, Sydney R., Llanelly  
 Wilson, Thomas C., Stowmarket  
 Wood, Arthur H., Nottingham  
 Wood, Vincent L., East Cowes  
 Wood, William H., Runcorn  
 Wright, Arthur, Bury St. Edmunds  
 Wright, Charles F., Liverpool  
 Yates, George W., Stoke-on-Trent  
 Yule, Thomas, Dunfermline

#### EDINBURGH.

The Board of Examiners for Scotland met at 36 York Place, Edinburgh, on July 17-20. The following are the names of the successful candidates:—

##### Major Examination.

Melvin, George, Edinburgh | Wilson, John J., Edinburgh

##### Minor Examination.

Bower, Frederic Riseley, Manchester  
 Buchan, David Donaldson, Stirling  
 Burn, David Haitly, Arbroath  
 Colley, Henry, Manchester  
 Duncanson, James Davidson, Edinburgh  
 Emers, John Thomas, Edinburgh  
 Forbie, Robert, Aberdeen  
 Gale, W. Wheateley, Newcastle-on-Tyne  
 Halle, John Milne, Glasgow  
 Horn, Joseph, Liverpool  
 Hulse, John Beckington, Manchester  
 Hinch, Philip Henry Alban, Liverpool  
 Hunt, John, Paisley  
 Hunt, Robert, Glasgow

Lockwood, Johnson, Otley  
 Mason, Robert, Paisley  
 Merson, George, Edinburgh  
 McGeorge, David, Castle Douglas  
 Peterkin, Charles John, Elgin  
 Pirie, James, Edinburgh  
 Rae, Wm. Murdoch, Dumbarton  
 Reid, David, Fordoun  
 Reid, David Speed Clark, Glasgow  
 Reith, Alexander, Aberdeen  
 Richardson, George Lowas, Edinburgh  
 Stark, James, Edinburgh  
 Thomas, Joseph, Rochdale  
 Wilkinson, Thomas, Crook  
 Williams, Edwin, Liverpool  
 George, Alex. Cosgrove, Patricroft

#### BRITISH PHARMACEUTICAL CONFERENCE.

A MEETING of the Executive Committee of the Conference was held on Wednesday, July 18, at 17 Bloomsbury Square, London. Present—Professor Attfield, F.R.S., in the chair; Messrs. Umney, Plowman, Martin, Dale, Ransom, and Gerrard; Mr. Naylor and Dr. Thresh, non-officials.

The hon. secs. reported that in accordance with the resolution of a previous meeting, the sub-committee had decided to present the books from the Bell and Hills' fund to the Roy Literary and Scientific Institute of Bath, subject to the condition that the works should be accessible at all reasonable times to the pharmacists of the city. The Society had accepted the gift on the above condition, and had generously offered all the privileges of membership of the Institute to the members of the Conference during their stay in Bath.

Mr. Wilson (of Messrs. Commans & Wilson, Bath) was elected an auditor for the present year.

Dr. Thresh read a letter from Mr. Martin, of Newcastle, announcing the formation of a local committee to invite and arrange for the meeting of the Conference at Newcastle next year.

Mr. Martin was appointed chairman; Mr. Clague, secy. Mr. Barnard S. Proctor, F.I.C., treasurer; and Messrs. Main and Harrison (Sunderland) were deputed to visit Bath at the ensuing meeting of the Conference, and give expression to the resolution of the committee inviting the Conference to visit Newcastle next year.

A number of gentlemen were nominated and duly elected members of the Conference.

DRACIC ACID is obtained as a fine powder by making a saturated solution of it in boiling water, then vigorously agitating the solution with an egg-beater while it cools, when it gives a deposit of microscopical crystals. These are partially dried between sheets of filtering paper, and may then be quickly reduced to impalpable powder in the mortar.

## Legal Reports.

### BIRMINGHAM VINEGAR BREWERY COMPANY (LIMITED) v LIVERPOOL VINEGAR COMPANY (LIMITED).

The defendants in this case had entered an appeal against the order of Mr. Justice North restraining them from selling or allowing to be sold, or representing or causing or allowing to be represented any goods manufactured by the defendant Company as being the goods known as "Holbrook's Worcestershire Sauce," "Holbrook's London Relish," and "Holbrook's Pure Pickles," or from doing anything which should lead to the belief that the articles manufactured and sold by the defendants were the goods of the plaintiffs, or that the defendants were the proprietors of the articles known by the aforesaid names. The case was set down for last week, the judges being Lords Justices Cotton, Fry, and Lopes. Upon the appeal being called on, no one appeared in support of it, and Mr. Hardy, Q.C. (who appeared for the plaintiffs), asked that the appeal might be dismissed with costs, which their lordships accordingly did.

### THE SALE OF POISONS IN THE TRANSVAAL.

ON June 18 at Barberton, Mr. J. W. Winter, chemist and druggist, Barberton, was charged at the police-court with having sold to a certain George N. Routledge, now deceased, 4 oz. of laudanum, which was a dangerous quantity of that substance, and is known or considered to be poisonous. (The contravention consisted in selling without a permit from the Landdrost, or without its being prescribed by an admitted physician.) The accused pleaded guilty, but his counsel explained that the laudanum was bought to be administered to a horse, and it was very doubtful whether the deceased used the laudanum. On the day it was bought the Landdrost's office was closed, and there was no time to wait for its opening as then the horse would have died. The Court observed that it would accept the extenuating circumstances as adduced for the defence, as they appeared to be true, and were borne out by the report of Mr. Marks, the analyst. Still a punishment would have to be imposed, and the lowest the Court could impose was a fine of 5*l.* or seven days' imprisonment. After the fine was paid the accused asked how he was to act if people came in the evening when they could not get a permit from the Landdrost. The Court said there would always be an opportunity to get a permit or a prescription from a physician or veterinary surgeon.

### FAILURES AND BANKRUPTCY REPORTS.

FRASER & CORY, trading as James Fraser and Company, 21 Mincing Lane, City, Colonial Brokers.

ON July 20 at the London Bankruptcy Court, John Cory applied to Mr. Registrar Giffard to be allowed to pass his public examination upon accounts showing gross liabilities of 6,458*l.* 9*s.* 11*d.* of which 3,529*l.* 2*s.* 5*d.* is expected to rank against assets valued at 611*l.* 5*s.* 6*d.*, after deducting 20*l.* 8*s.* 4*d.* for preferential claims. The deficiency of 2,917*l.* 16*s.* 11*d.* is accounted for by speculations, and to the expenses and personal drawings having been in excess of the profits of the business. Mr. Aldridge represented the Official Receiver, Mr. Herbert Reed appeared for the trustee, and Mr. Carrington on behalf of the bankrupt. In the course of the examination Cory stated he had no idea where his partner was, he had absconded with all the money he could lay his hands upon, and he (the debtor) had prepared the accounts which were filed. They began business in March, 1887; his drawings had amounted to 350*l.*, of which he had lent 260*l.* to a person since dead, and his partner had drawn 1,200*l.* from the business during the same period. He had lost 450*l.* on the Stock Exchange, and the firm had also lost heavily on other speculations. He further said that the firm had purchased goods and obtained advances thereon. They were ostensibly colonial brokers, but they were merchants rather than brokers. His Honour ordered the examination to be concluded.



*Re F. LIVERSEDGE, York, Drug Dealer.*

THE adjourned meeting of the creditors of Frank Liversedge, drug dealer, of Heslington Road, York, was held at the Official Receiver's office, York, on July 20. The object of the meeting was to consider the debtor's proposal at the first meeting of creditors, for the payment of his liabilities in full, conditionally upon the receiving order being rescinded and the adjudication order being withdrawn. At the meeting, however, the debtor was unable to confirm his proposal, and the same fell through. Consequently the adjudication stands. The adjourned public examination is fixed for July 31.

*H. B. DIXON, Hanley, Wholesale and Retail Chemist.*

A MEETING of the creditors of this debtor was held at the office of the Official Receiver, Newcastle-under-Lyme, last week, for the purpose of considering a composition offered by the debtor of 6s. 8d. in the pound. The liabilities are between 1,300*l.* and 1,400*l.* The Official Receiver, who presided, said he had received a sufficient number of assents to the proposal to enable it to be carried. Mr. A. P. Llewellyn, who appeared for the debtor, said he would apply to the Court at Hanley on August 2 for Judge Jordan's sanction to the composition.

*Re J. H. ATHERTON, Wigan, Chemist and Druggist.*

THE Official Receiver's statement in reference to the affairs of this debtor, who has filed a petition in bankruptcy, shows that the claims of the unsecured creditors amount to 1,340*l.* 18s. 3d., and those of creditors partly secured to 39*l.* 5s., the securities being estimated at 8*l.* The preferential claims amount to 89*l.* 4s. 1d. The assets, including stock-in-trade, fixtures, furniture, book debts, &c., are put down at 962*l.* 0s. 11d. After deducting the preferential claims, the sum of 873*l.* 7s. 10d. is left, showing a deficiency of 587*l.* 19s. 6d. The debtor alleges as the cause of his failure depression in trade and pressure of creditors. The Official Receiver makes the following observations:—"The receiving order has been made on the debtor's own petition. The debtor has carried on the business of a chemist at 57 Standishgate, 9 Market Street, Wigan, and a branch at 120 Ormskirk Road, Newtown. Several creditors have issued writs against the debtor, but none have obtained judgment. The stock-in-trade is valued by the debtor as a going concern, but if broken up the amount realised would be considerably less. There is some reason to believe that the debtor has been losing money ever since he commenced business, and that his late partner, Mr. McConnell, is liable for most of the present debts of the firm of Atherton & Co. The debtor's deficiency account does not explain in detail how the loss of 587*l.* 19s. 6d. has taken place, but there is no reason to doubt that the profits have never been sufficient to pay the rent and expenses of the shop and maintain two partners, and consequently there has been a gradually increasing deficiency owing to the excessive expenditure. The debtor has no offer to make, and has been adjudged bankrupt."

*Re GEORGE MARIUS DELPECH, 21 Mincing Lane, E.C., and at Havre, trading as G. M. Delpech & Co., Colonial Merchant and Broker.*

MR. HERBERT REED applied to Mr. Registrar Giffard on Wednesday last at the London Bankruptcy Court to confirm a scheme of arrangement agreed to by the creditors under this failure. The debtor filed his own petition on April 14 last, and submitted accounts showing liabilities of 11,079*l.* 17s. 1d. expected to rank, against assets estimated to produce 764*l.* 10s. 7d., after allowing for preferential claims of 140*l.* 6s. 8d. At the first meeting of creditors held on May 29 last, a special resolution was passed entertaining a proposal by the debtor for a scheme of arrangement providing for the payment of a composition of 2s. in the pound, in two instalments of 1s. each at one month and six months respectively from the date of the approval by the Court of the scheme, such instalments to be secured by promissory notes payable to the trustee of the estate, claims to the amount of 2,346*l.* 1s. 8d., due to the debtor's relatives,

being withdrawn, and power being given to the trustee to enable him to recover certain large outstanding debts. The resolution was duly approved at a subsequent meeting of creditors held on June 29. The report of the Official Receiver stated that the proposed scheme appeared to be reasonable, and calculated to benefit the general body of creditors. In his public examination, the debtor stated that he began business as a colonial merchant and broker in 1878 without capital, that his business rapidly increased, and in January, 1885, he stated he had a surplus of 5,000*l.*, which by December, 1887, had increased and was estimated at 9,251*l.* He further stated that for the past two and a half years he has had speculative transactions on behalf of a creditor who now owed him 12,234*l.*, in respect of differences in the price of produce, but that he did not find out until the middle of February last that the account was bad. The debtor attributed his failure to losses by bad debts, and particularly to the one above referred to. The Official Receiver reported that the bankrupt's books did not sufficiently disclose his financial position within the three years immediately preceding the failure. The report was read by Mr. Aldridge, who represented the Official Receiver; and no opposition being made, the learned registrar stated that the Court approved of the scheme of arrangement.

*Re RIVERS HICKS, trading as François Le Mair & Rivers Hicks, 5 Savage Gardens, Tower Hill, Indian and General Merchant.*

THE first meeting of creditors under this failure, full particulars of which were published in last week's CHEMIST AND DRUGGIST, was held on Tuesday in the London Bankruptcy buildings before Mr. Pope, a deputy assistant Official Receiver. Mr. Walter Hills, solicitor, of Margate, appeared for Mrs. Le Mair, Mr. Reeves for Mr. Henley, a creditor, and Mr. E. J. Stannard for the bankrupt. In reply to Mr. Walter Hills, the debtor stated he admitted his liability to Mrs. Le Mair for 1,200*l.* and interest. That 1,200*l.* represented the balance of the 3,000*l.* which constituted Mr. Le Mair's share of the business. He had also borrowed 1,500*l.* on mortgage, as was described in his statement of affairs. In addition to that, he had borrowed 3,000*l.* from his father, in two sums of 2,000*l.* and 1,000*l.* respectively. Both those amounts were advanced to him in the course of 1882, and they were necessary for the purpose of carrying on the business. It was in February, 1882, that he took over the business from Mr. Le Mair, to whom he paid 4,500*l.*, and it was in consequence of that payment that he was obliged to go to his father for money to enable him to carry on the business. Later in the year he wanted the second loan, as his business was increasing. His balance sheet showed that in 1885 he had a capital of over 6,000*l.* Mr. E. J. Stannard, solicitor for the debtor, said he had a proposal to make, but before submitting it he thought a few words of explanation were due from Mr. Hicks. Now he (Mr. Stannard) represented not only the debtor, but also some of the Indian creditors, as well as other creditors. If they looked at the deficiency account, they would see that three years ago the debtor had over 6,000*l.* in hand; but when the petition was filed only 28*l.* of that remained, the reason being the serious depreciation which had taken place in the value of his stocks, and losses in business in the ordinary course of trading. Almost immediately before the petition was filed he received the practically unanimous consent of creditors to go on trading, but he, as his adviser, finding that there were certain onerous contracts, on which there might be a liability, and bearing in mind that the capital, which was only 28*l.*, was totally insufficient to carry on those contracts which were liable to lead to a loss, advised him that it was impossible to continue the business, and that it would be better to go to the Court and obtain its protection. The petition was consequently filed. By means of a trustee, the business had since been carried on, the official receiver being the trustee, *pro tem.*, and various sums of money had been received. As they well knew, they could not get rid of the onerous contracts except by disclaimer under the proceedings. It was certainly better to adopt that course and ascertain their exact amount of liability. He had every hope that the estate would pay 20s. in the pound to all the creditors, with the exception of a few family creditors, who would stand on one side when the distribution of the dividend came. The



family claims which would thus be withdrawn amounted to some few thousand pounds, and he calculated there would be sufficient assets left to pay not only 20s. in the pound but also the expenses. The stock required to be very carefully realised; it consisted, as they no doubt knew, of bark, ginseng, and tea, and if the realisation was placed in the hands of an ordinary accountant, the value of the estate might be seriously jeopardised, and it would not realise so much as it ought. As the family creditors were going to stand on one side, it was only right that the estate should be realised with as little expense as possible, and the suggestion was that the Official Receiver should take the general supervision of the matter into his own hands, and allow Mr Hicks to realise the stock from time to time as opportunity occurred, and if that were done, he thought that by the end of the long vacation they might hope to meet together again and have a report made to them that sufficient cash had been obtained to pay the 20s. in the pound, and then they would be asked to assent to the annulment of the bankruptcy. It was only asked that Mr Hicks should receive a nominal remuneration for his services in the realisation. Replying to further questions by Mr. Hills, the debtor said that the onerous contracts which reference had been made were taken by him on his own responsibility, after he purchased the business.

Mr. Hills: I take it the debtor will be adjudged bankrupt.

Mr. Tannard: He has already been adjudged bankrupt.

Mr. Hills: And does the Official Receiver approve of the proposed arrangement?

The chairman: It is entirely a matter for the creditors to decide, but I think the proposal is a good one.

Mr. Hills: At any rate, the creditor's position will not be prejudiced by the delay.

Mr. Tannard: On the contrary, it will be improved.

Mr. Kirkett then moved a resolution, setting forth that it was inexpedient to appoint a trustee outside, and leaving the matter in the hands of the Official Receiver.

The chairman said the resolution was practically in the form required by the Board of Trade.

Mr. Hills: Very well. I will second it.

The resolution was then put and carried.

Mr. Kirkett said he proposed to submit another resolution, empowering the Official Receiver to employ Mr. Hicks in the work of realisation.

The chairman thought that was a work of supererogation, the debtor was bound to give the Official Receiver every assistance in his power in the realisation of the estate.

The motion was thereupon withdrawn.

Mr. Hills said that before the meeting separated he wished to state that Mrs. Le Mair felt much aggrieved at the fact that the name of Le Mair had been brought into these proceedings; it was of course a necessity, but she wished it to be distinctly understood by the creditors that neither she nor any member of her family had any interest in the business. The meeting then dispersed.

## Personalities.

Mr. J. KEEVILL, York Buildings, Clifton, has sold his drug business to Mr. Richards.

Mr. GEORGE W. LILLIE, partner in the firm of Messrs. Syme, Bros. & Co., Toronto, is visiting London on a holiday tour of England and the Continent.

Mr. H. JEFFREYS, 110 Cheltenham Road, Stoke's Croft, Bristol, has disposed of his business to Mr. J. Horsley Villiers, for some years with Messrs. Savory & Moore.

On Friday last a man giving the name of Henry Mortimore, and describing himself as a chemist's assistant of Plymouth, was found in the water near Exmouth. He said he had fallen from Starcross. He was taken before the magistrates on Saturday, charged with drunkenness. He was discharged on payment of costs, and on his promise to leave the town.

Mr. R. C. TREATT, of Dunster House, was among the witnesses summoned in the recent case of Atkinson v. Atkinson (reported last week). Mr. Treatt was to have given expert evidence on the quality of the perfumes, but as no question arose in reference to quality, such evidence was not needed.

## Gazette.

### PARTNERSHIPS DISSOLVED.

Dale, H. & E. J., Kirby Street, Hatton Garden, and Ludgate Hill, E.C., electricians and manufacturers of electrical, photographic, and scientific apparatus and appliances.

Insull & Co., Hanley, chemists and druggists.

Reid & King, Horbury Bridge, near Wakefield, oil and stearine manufacturers.

Snell & Towlson, Ketton and Barrowden, Rutland, surgeons.

### THE BANKRUPTCY ACT, 1883.

#### RECEIVING ORDERS.

Atherton, John Henry, Wigan and Newtown, Pemberton, Lancashire, chemist and druggist.

Broad, Thomas Benjamin, Derby, Uttoxeter, Ashbourne, and Ilkeston, dental surgeon.

Fisher, Jesse, & Son, Madeley, Salop, chemical manufacturers.

Jones, Edward, Camberwell New Road, and New Street, Kensington, chemist.

#### FIRST MEETINGS AND PUBLIC EXAMINATIONS.

Atherton, John Henry, Wigan and Newtown, Pemberton, Lancashire, chemist and druggist—August 2, County Court, Wigan; August 14, County Court, Wigan.

Broad, Thomas Benjamin, Derby, Uttoxeter, Ashbourne, and Ilkeston, dental surgeon—August 1, Official Receiver's Offices, Derby; August 13, County Hall, Derby.

Clayton, William, late of Hammersmith Road, now of King Street, Hammersmith, doctor of medicine—July 31, 33 Carey Street, Lincoln's Inn; August 16, 34 Lincoln's Inn Fields.

Fisher, Jesse, & Son, Madeley, Salop, chemical manufacturers—August 1, County Court office, Madeley; August 1, County Court, Madeley.

#### ADJUDICATIONS.

Atherton, John, Henry, Wigan and Newtown, Pemberton, Lancashire, chemist and druggist.

Broad, Thomas Benjamin, Derby, Uttoxeter, Ashbourne, and Ilkeston, dental surgeon.

#### NOTICE OF DIVIDEND.

Rippon, Edwin, Upper Street, Islington, chemist and druggist—first and final div. of 3s. 1d., any day except Saturday, Chief Official Receiver's office, 33 Carey Street, Lincoln's Inn.

#### APPLICATION FOR DEBTOR'S DISCHARGE.

Lockwood, William, and Leith, John, St. Helen's, chemical manufacturers—August 17, Court House, Liverpool.

#### ORDER MADE ON APPLICATION FOR DISCHARGE.

Wallace, Alexander, Colechester (trading as the New Plant and Bulb Company), physician, florist, and plant merchant—discharge suspended for three months.

#### DAY APPOINTED FOR PROCEEDING WITH PUBLIC EXAMINATION ADJOURNED SINE DIE.

Sharp, Henry, London Place, London Fields, Hackney, bottle manufacturer—August 7, 34 Lincoln's Inn Fields.

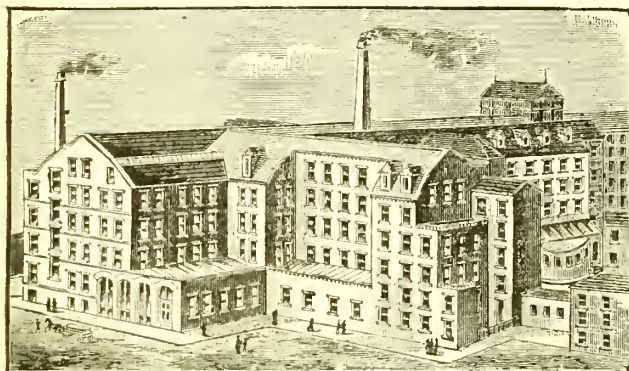
Customer: "Is the sale of patent medicines increasing?"

"Yes and no. Patent medicines have their fashions the same as spring bonnets. It is not always the best medicine that has the largest sale. A few years ago a man prepared a mixture that temporarily deadened pain. It was injurious, for it tended to produce paralysis. The man advertised it far and wide, and he made a fortune in a very short time. His pain-annihilator was known and used in almost every family. Like the Roman Empire, it had its rise and fall. Now nobody thinks of using it. In fact, it is not even manufactured."



## MESSRS. GOODALL, BACKHOUSE &amp; CO., LEEDS.

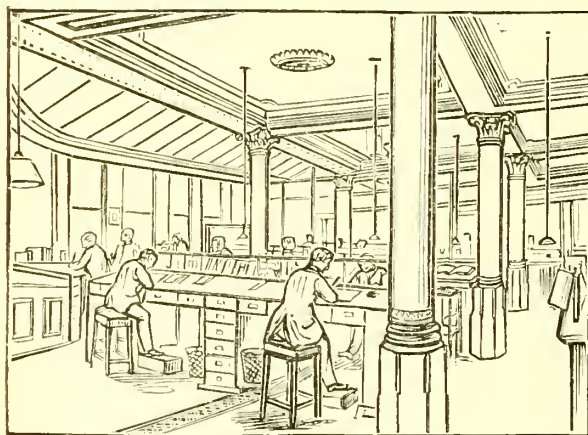
IT is fifteen years since we described the then newly-finished premises, which had been erected and fitted up to meet the rapidly-growing requirements of Messrs. Goodall, Backhouse & Co., wholesale druggists, of Leeds. At that time the name of this firm was comparatively new to the trade generally, but it had become exceptionally famous by the phenomenal success of their then recently introduced sixpenny sauce, the Yorkshire Relish. The business has



WAREHOUSES AND OFFICES, WHITE HORSE STREET.

gone on growing at the same rate as before, and to meet increased requirements the whole of the extensive building has been remodelled and refitted. The premises in White Horse Street are now employed more exclusively than before for the prompt execution of orders, while the many manufacturing operations of the firm are carried on in works of immense extent within a few minutes' walk of the principal establishment.

During a recent sojourn at Leeds one of our staff paid a visit at White Horse Street somewhat early in the morning, but found that Mr. Powell, the only surviving partner of the house, had already got through two or three hours' work. He starts on



THE GENERAL OFFICES.

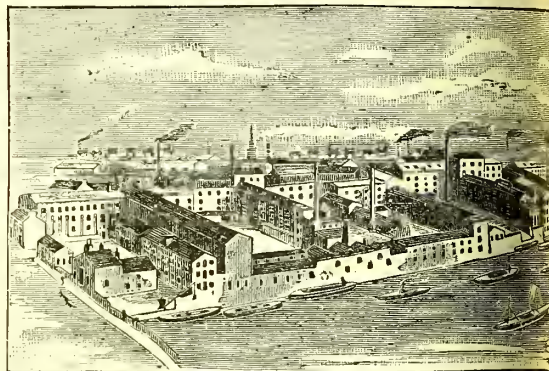
his letters at seven o'clock every morning, and gets the day's work into battle array before he goes home to breakfast.

"Have a walk round," said Mr. Powell, after a kind greeting; and, adding to our group Mr. Bowman, a nephew of the principal, who shares with him the labours of the management of the business, we set forth on a survey of the premises. The procession started at 10 A.M. and lasted till well on in the afternoon, and even then had to be scamped somewhat so as not to disarrange the Midland Company's railway system. In all, there are eight acres of floor space in Messrs. Goodall, Backhouse & Co.'s premises, and the

whole of these eight acres are either filled with stock or are scenes of busy life more or less closely associated with the drug trade.

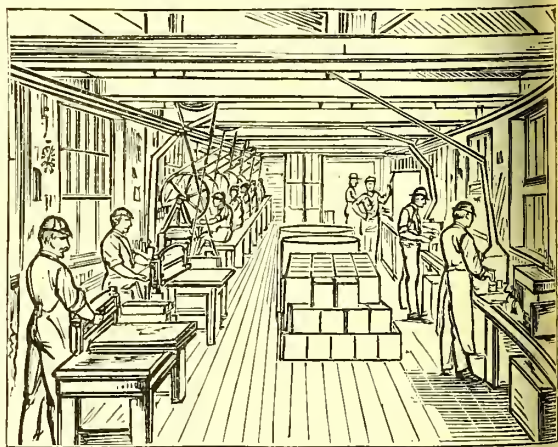
The new offices, occupying 300 square yards, on the ground floor are light, airy, spacious, and handsomely furnished. Among the other furniture we noticed a large bookcase supplied with all available directories, bound volumes of THE CHEMIST AND DRUGGIST, of the firm's own prices current, and other works of reference. Conveniently adjoining the general office are the "principals' room", and several private offices. A vaulted strong-room, 18 feet by 12 feet, is on the same level.

Passing from the offices, still on the ground level, we come



MANUFACTORY, SOVEREIGN STREET: FRONTAGE, 1,048 FEET.

on the packers. There are about a dozen disposing of general orders, and half that number occupying themselves with Yorkshire Relish alone. The engine-room is in this locality. Here are a magnificent pair of fifty-horse-power horizontal high pressure engines busily engaged in driving the various machinery through the building, working lifts, and converting some of its power through a dynamo machine into some 350 incandescent lights, these being used in the offices, in the basement, and in some parts of the warehouse. The "wet department" is nearly on the same level, and extending under the whole is a fine, dry, cool, and well-lighted vaulted basement. All the inside walls of this



MACHINE ROOM, TIN-BOX MANUFACTORY.

department, as well as of the offices, the engine-room, and other parts of the building are faced with highly-glazed tiles, manufactured in immense quantities in the neighbourhood of Leeds. The lighting of the basement is very successfully accomplished by a number of Hayward's patent reflectors, which, by means of rows of pyramid-shaped solid glass projections on a glass surface, catch and reflect the light all over the required space.

Bottle-washing is in busy operation in this section, and beyond the washing department we come to the drying-room, where heat is provided from the boiler. Another



ge part of the cellarage is occupied with the stock of oils. These are kept in 500-gallon cisterns.

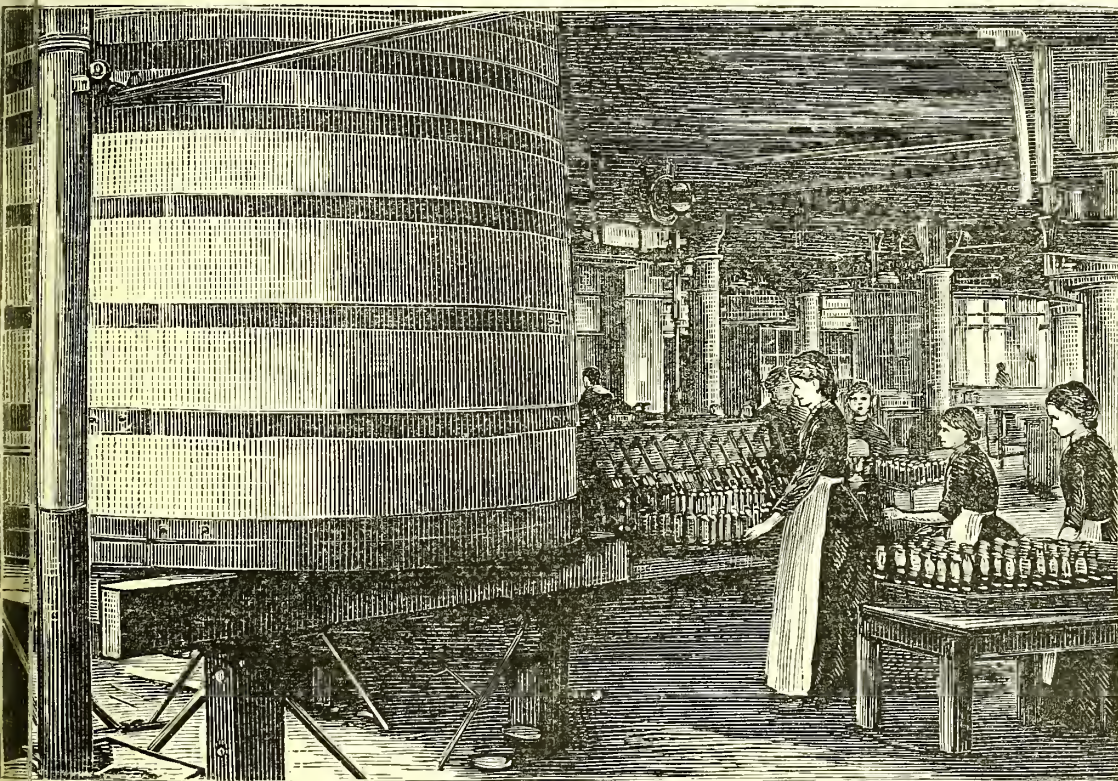
"We make all those cisterns ourselves," says Mr. Powell. "In every use or send out, from the penny pepper tins to the cisterns, is manufactured at our works. All the iron and fixtures throughout this building have been made and fitted by our own joiners, and all the shafting, standards, and much of the machinery has been cast and made in our own smithies. All this you will see when we go to the works."

Once again at another strong-room in the basement, where the drugs and chemicals are stored, and then mount to the upper floors of the building. On the first above the ground floor we find the stock of patent medicines packed in very deeply-shelved cases running down the middle of the floor. In this department and throughout the warehouse every division and portion of space is lettered and numbered, and the goods therein contained are similarly lettered and numbered in the firm's price-list—a very convenient arrangement. Beyond the patent department we come to a room where the packing of cod-liver oil, glycerine, and

1,100 gallons, into which the sauce is poured from the floor above, being hoisted up there in barrels. In the vat it is kept vigorously stirred by fans revolving by steam power, and it flows out into a sort of trough in a regulated stream. From twelve syphons on each side of the trough the sauce is constantly flowing into the familiar bottles, and empty bottles are being substituted for full ones at the syphons by girls on both sides with a rapidity which looks like piano-playing. The full bottles are passed on through several hands to be labelled, wrapped, packed in little trucks holding exactly a gross, and "lifted" to the packing floor with almost automatic regularity.

In another part of this floor we notice a pleasant evidence of the consideration shown to the employées, a room being specially set apart for cooking the girls' dinners by the service of steam heat.

There is one more floor, the lightest, brightest, driest, and most cheerful. On this the almost exclusive business carried on is the packing of "white" powders—egg powder, baking powder, custard powder, and a dozen others. The scene is a very busy one, and it is very evident that this floor con-



YORKSHIRE-RELISH VAT AND FILLING MACHINE.

er drugs are being carried on on the immense scale which seems to be the vogue in this establishment.

"We have one customer," remarks Mr. Bowman, "who has a ton and a half of glycerine at a time, put up in 100 sized bottles." "A retailer?" "Yes."

It is very hard to imagine this stock and where it goes to, the quantity of goods which has often presented itself of late years, and which chemists as a body have hardly realised as yet the enormous capacity the public have for absorbing drugs and chemicals, if these can once be brought from the level of necessity to that of supposed necessities.

The floor above contains the "dry room," the stock of tins, of boxes, and a large stock of bales of drugs, and is a room being fitted up as an analytical laboratory by another nephew of the principal who is about to join him in the business. On the next floor we come to a great deal of bottling, scores of girls being busy here with various kinds of goods; but the centre of attraction here is the bottling of Yorkshire Relish, which we suppose has been going on at the same rate, at an extending pace every day since we last watched it ten years ago. The bottling is done from a vat holding

tributes a not inconsiderable quota towards the general total of Messrs. Goodall's returns.

From this modern drug warehouse we take a walk to the works of the firm, situated on the riverside, about quarter of a mile away. It is not till after a rapid survey of the machinery, stock, and operations here that we fully realise the remarkable business which Messrs. Goodall, Backhouse & Co. have built up. The works were extensive paper and flax mills, which have been adapted to the purposes of this business after great expense and alteration. The buildings cover an oblong quadrangle, one side looking on to the Aire, the other facing Sovereign Street. Several spur buildings cross the quadrangle, leaving useful yard spaces between each, and in the buildings themselves are some fifty splendidly spacious floors, and numerous small ones. We do not propose to describe the work carried on in these buildings in detail, but some of the leading operations may be briefly indicated. One branch, in which some sixty persons are employed, is the manufacture of tin boxes. All the tins used by the firm for packing goods in, as well as the cans and cisterns for stock, are made in this section, direct from

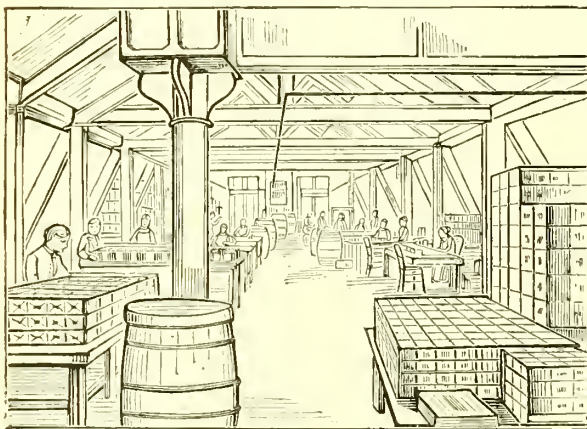


the tinned-iron plates, and orders from other firms are also executed. This department covers an area of 10,000 square feet, and with the machinery at work can turn out 1,000 gross of tins per week, ranging from a  $\frac{1}{2}$ -oz. kali tin to a  $\frac{1}{2}$ -cwt. chicory tin. The joinery works, the lathe and planing shop, and the foundry are kept busily occupied in supplying the many wants of other departments, and three engines, and three boilers, of 30-horse power respectively, supply the active energy, as well as the necessary heat needed throughout these works. On one floor the manufacture of vinegar has been lately commenced, and at the time of our visit



CUSTARD AND BLANC-MANGE POWDER PACKING ROOM.

three enormous oak vats, of 12,000 gallons capacity each, were being erected, in addition to a large number of smaller ones, in order to provide for the maturing of the product. Mushroom ketchup is already manufactured on an immense scale, the stock of this being held in two such vats as we have already mentioned, holding 12,000 gallons each, and in twenty-six other vats of from 300 to 1,150 gallons capacity each. These, with numerous other vats and casks that we saw, represent a storage capacity of over 1,000,000 gallons. We presume that these contribute towards the manufacture

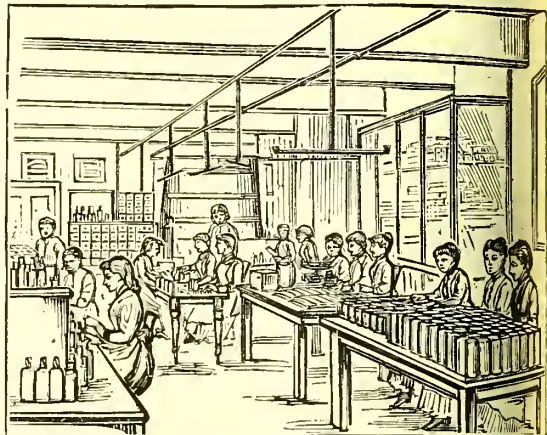


THE EGG AND BAKING POWDER PACKING ROOM.

of the Yorkshire Relish, which demands and swallows vast piles of stock, like the hungry giants in the old Norse legends. A little building in one of the yards was opened as we passed, and found to be stocked with barrels of anchovies. A label on the door indicated that the stock therein contained was 35 tons 7 cwt. 3 qrs. A great space was cleared for a shipment of 750 barrels of soy, expected in a few days. On the spice floor we were shown 28 tons of chillies, and other spices in almost similar proportions. The Relish, as may be supposed, is manufactured in bewildering quantity, but, as well as we understood,

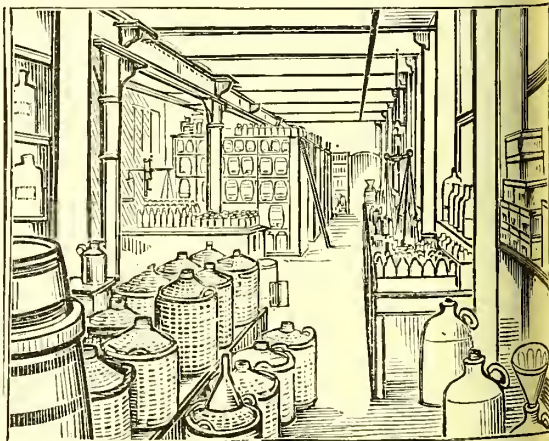
it was matured in a concentrated state in a number of large pipes, and mixed in a few big vats with the required diluents, previous to being carried away for bottling. The tap of the big vat from which the well-mixed fluid is drawn off is something of a curiosity, being of gun-metal and weighing over a hundredweight.

The operations we have alluded to are a little outside the drug business proper, which, after all, is Messrs. Goodall, Backhouse & Co.'s original, if not principal, occupation. To this, the backbone of the whole concern, the utmost attention seems to be given, and the operations are on as thorough a



QUININE-WINE AND GENERAL BOTTLING ROOM.

scale as are those of any of the other departments. Some six or eight floors are devoted exclusively to the manufacture of pharmaceutical preparations. The firm are their own drug-grinders, and the mills, sifting-rooms, and steam-stampers, which count up to thirty odd, of course occupy a great deal of space. They not only grind drugs and spices, but also such chemicals as tartaric acid, borax, and cream of tartar, and they also crush linseed. One of the top floors, with an area of 3,814 square feet, is devoted exclusively to the manufacture of citrate of magnesia.



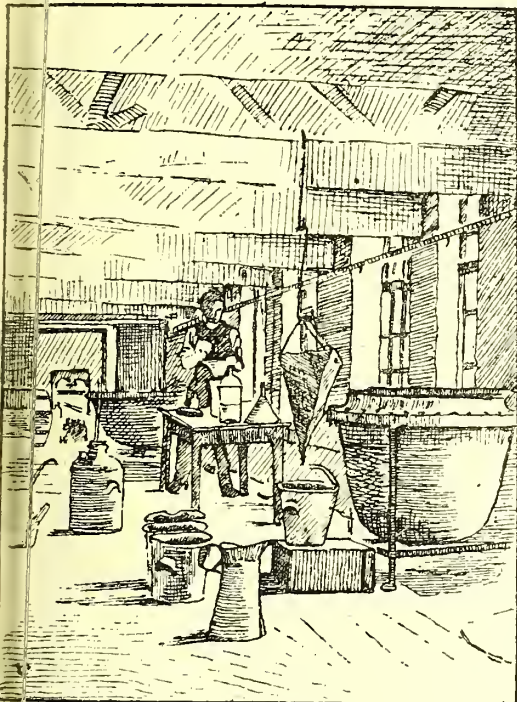
THE WET DEPARTMENT, LABORATORY.

an article of special importance. In the centre of that floor is a little room expressly built, where a secret process of granulation is carried on, and Mr. Powell—the frankest of wholesale druggists, which, however, is not saying much—says, as we pass the sacred spot, that they prefer to keep their secret. In the stillroom, carefully watched over by the Excise officer on behalf of the revenue, spirits of nitre, absolute alcohol, aromatic spirits of ammonia and acetic ether are being drawn, the first named from a still with an extraordinary long worm, 120 feet in length we are told. From this still 900 gallons can be drawn per week



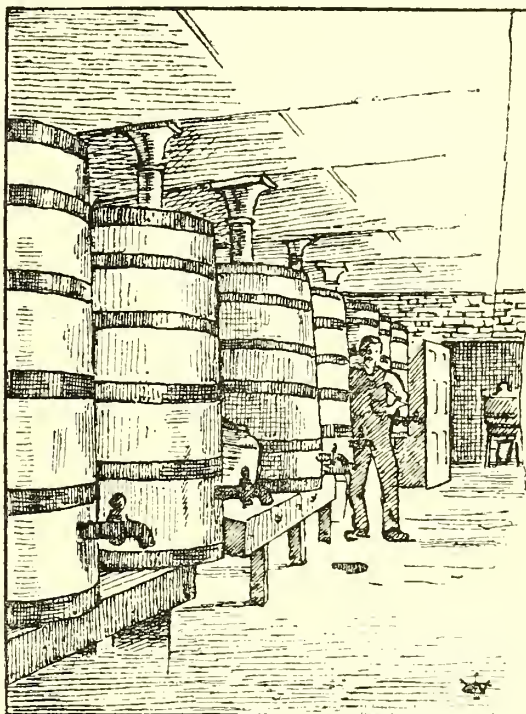
composition essence we know has an astonishing popularity the North, and perhaps half-a-dozen 140-gallon vats of it is not surprising stock; but a series of sixteen of such vats of Succus rhœados did a bit astonish us. The manufacture of tinctures, succi, extracts in vacuo, and other preparations need not be remarked on, except to say that examples of all of these products were being manu-

before the public. At the time of our visit the first instalment of their Household Almanac for 1889 was being delivered into stock. The number on order is eight millions, which are supplied in any reasonable quantity to the trade, with name, business, and address printed on the cover, free of all cost whatever. They have nearly 400 employes, amongst which is a perfect staff of mechanics, joiners, plumbers,



THE TINCTURE ROOM.

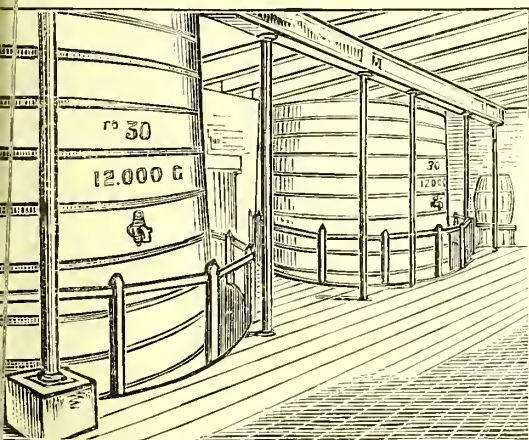
and as we walked through the laboratories. But we were little surprised to find in other laboratories the manufacture of bromide of potassium, acetate of copper, sulfate of soda, hydrate of iron, phosphoric acid, milk of lime, and permanganate of potash proceeding. The laboratories are under the supervision of Mr. Astley-Cooper. Assisted in the chemical department by Mr. Broad-



SUCCUS RHÆADOS VATS.

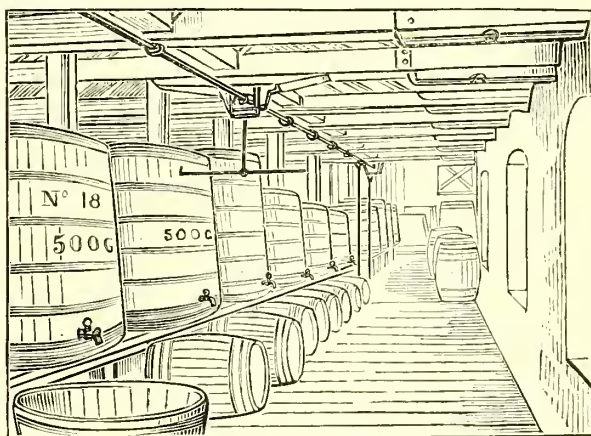
painters, &c., thus rendering them in position to repair any breakdown in the machinery or plant at the shortest notice.

We retire from our inspection of these very interesting and varied works with a somewhat confused mass of notes, which may have caused us to make some slight errors in this sketch. Once more we are impressed with the fact that



THE MAMMOTH VATS.

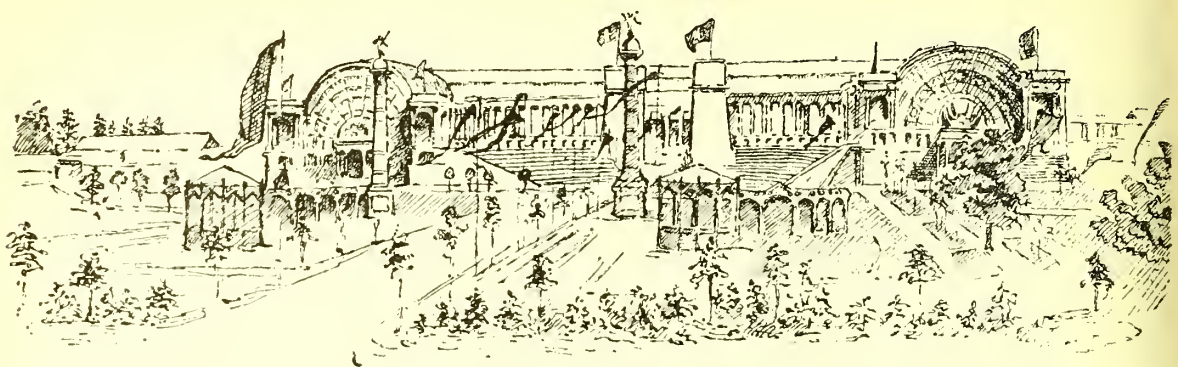
Well-furnished experimental laboratories, and the close proximity of works at which any kind of apparatus can be ordered to design, give them great facilities in carrying on important operations under their charge. Messrs. Goodall, Backhouse & Co. are one of the largest best-known firms of advertisers, spending from 30,000 to 50,000 per annum in putting their Household Specialities



MUSHROOM-KETCHUP VATS.

the drug trade is as capable as any other of development; that the public have to take medicine; that the consumption of physic must be largely on the increase; and that Messrs. Goodall, Backhouse & Co. have taken a front place in the business of supplying this demand; and that the enterprise and skill they have shown fully entitle them to the prominent position they have acquired.





## CONCOURS INTERNATIONAL AT BRUSSELS.

THE magnificent promises held out by the promoters of the exhibition lately opened in Brussels have gone some way towards making the enterprise ludicrous. It was not to be an ordinary exhibition: it was to be a "grand international competition in science and industry"; the year 1888 was to be inscribed in letters of gold in the annals of civilisation, because it was to witness at Brussels this mighty tourney among those engaged in the contests of human activity. It was to be a practical realisation of a new idea, furnishing the opportunity of watching each branch of science and industry in its history, in its immediate working, and in its aims and purposes for the future. This is in truth a very matter-of-fact and cold rendering of the bombastic nonsense issued in heaps of circulars last year, and now bound up and sold with characteristic modesty for 10f. Among the fifty-six sections into which the progress of civilisation was divided by these, its self-constituted guides, medicine, surgery, and hygiene appeared in one group, chemical arts in another, and pharmaceutical arts in another. An imposing committee was appointed for each section, and the members of each committee planned out the methods by which they intended to arrange the "grand concours." The idea was to put down questions or desiderata, and ask the civilised world to answer them by showing how nearly they could meet the wants thus expressed.

In all the sections, we are told, there were 2,988 problems indicated, constituting, say the promoters, "a colossal inquest due to the intelligence and to the devoted co-operation of all the most eminent personages which Belgium can count in the various branches of its national activity. Translated into various languages, this remarkable attempt at investigation was sent through the entire world, and everywhere and in all ranks met with the most lively sympathy." We are glad to know that; but sympathy was about all it got. The men of science and the men of industry had other things to do than to answer these Belgian conundrums, and, as might have been expected, they disregarded them altogether. Firms who thought there was a sufficiently good chance of business or of advertisement opened to them by this "grand concours," took space and sent their goods, and the result is a very fair exhibition on exactly the old lines; one that might have been spoken very well of generally, if critics had only been asked to regard it as a big bazaar with a large dash of the public-house element thrown in. This is practically what the exhibition is, or perhaps we should say, will be, for it is only just complete, and so far the visits of the public seem to fall a good deal below anticipations.

The pharmaceutical committee was a very influential one, and we published in July of last year a summary of the very elaborate scheme of desiderata which they drew up. We also announced, at their request, that they intended to plan illustrations exhibiting the history of the world's pharmacy. Their department, in fact, was intended to represent the past and the present of our art, and to indicate, as far as they could, its probable future. After issuing their circular this committee appear to have done nothing. Firms who would pay the price for space have sent whatever they like, and no

attempt at all seems to have been made to realise the ambitious ideas which were entertained and formulated in the pictures referred to.

### GREAT BRITAIN.

The British section was the first to get ready. It has a large building all to itself, which may have been intended as a compliment, but which is decidedly not advantageous to the exhibitors. Nine-tenths of the visitors will naturally give their freshest attention to the main building, and the majority of them will have had enough of show-cases when they get through that, and will turn their attention to the various drinking-shops outside, or, peradventure, will refresh themselves on the switchback (or, as the official catalogue has it, the Sportchback) railway. Only a few, comparatively, will drift into the building containing the gems of British science and industry.

On first entering the British section from the main building end we find Messrs. Bratby & Hinchliffe, of Manchester, with a handsome complete installation for the manufacture of aerated waters. But up to the middle of June they had not been able to obtain steam power to put it in action, as they intend to do as soon as possible. They show a fine assortment of fruit essences and other necessities for the manufacturer. They have also all sorts of aerated waters on sale in their "Safety" stoppered bottles, and are representing the Silicated Carbon Filter Company as well as themselves.

The most elegant show-case in the British section is perhaps that of Messrs. Burroughs, Wellcome & Co. It is one of the cases made out of the Indian woods bought from the Commissioners of the Indian and Colonial Exhibition, and it contains specimens of all the classes of goods which this firm manufacture or are agents for. They have now such a long line of articles illustrative of modern pharmacy that the case has necessarily a somewhat crowded appearance. Compressed tablets, which on the Continent are being taken up with a sort of enthusiasm, are appropriately enough the most prominent articles in this collection. In this manufacture Messrs. Burroughs, Wellcome & Co. may claim pre-eminence.

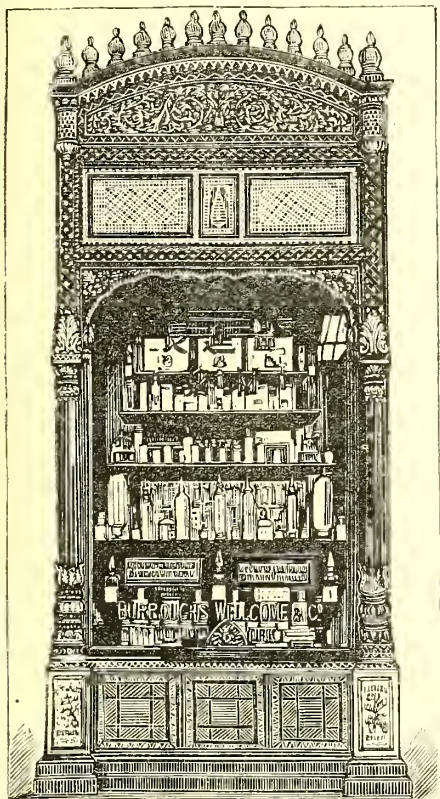
The Chescbrough Company make a very varied and showy exhibition of their popular product in its many forms and combinations. They announce and declare their exclusive right in the title, but other parts of the exhibition make it manifest that foreigners show but scant respect to this claim.

Mr. Hornby, of Richmond, exhibits his Kamphorkalk, and "Sir Murray & Son" make display of their fluid magnesia and fluid camphor. John Jakson & Co., the distillers, of Mitcham, make an effective show of their labels for English oils of peppermint and lavender, but these are in most cases, if not in all, attached to empty bottles, and at any rate are locked up in a case, so that there are no means of appreciating the high quality of this firm's products.

This pretty well completes the enumeration of the representatives of British pharmacy strictly so called, but from the ever-widening borderland between that and other businesses we find many very good exhibits. At the end of the



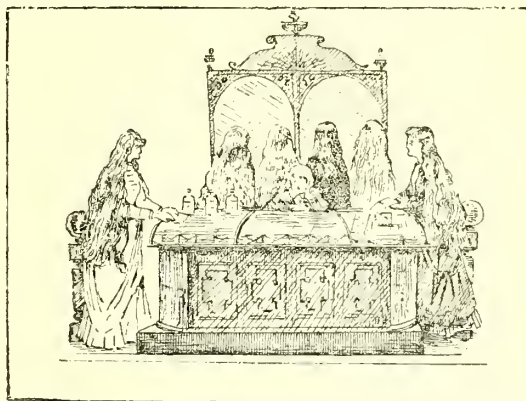
building opposite that occupied by Messrs. Bratby & Hinch-  
 li, we find Messrs. Cresswell Bros. with a large case of  
 sponges, including Turkey, honeycomb, Cuban, and all  
 varieties and sizes, bleached and unbleached, so arranged as  
 to produce a gay effect. Small cases of aerated waters are  
 shown by Messrs. S. Gulliver, of Aylesbury, and O'Brien, of  
 Dolin; and Messrs. W. J. Bush & Co. have a very complete  
 line of fruit, flavouring and colouring essences, granular  
 preparations, French cream for frothing, &c., all put up in  
 very graceful vessels and making a lively looking case. Spratts  
 Pent (Lim.) occupy a rather large space, with a counter  
 for retail sale. Their famous dog biscuits are only one item  
 in their collection, which extends to all sorts of medicines for  
 dogs and poultry, to dogs' collars and dog whips, and to cod-  
 liver oil. They have useful little pamphlets in French and  
 English on the rearing and treatment of dogs and poultry,  
 and their stand seems to attract considerable attention.



MESSRS. BURROUGHS, WELLCOME AND CO.'S SHOW-CASE.

Perfumery is well represented. The Crown Perfumery  
 Company present the most stylish collection; Mr. Rimmel has  
 an elegant small case; Messrs. Burroughs, Wellcome & Co.  
 exhibit Colgate's toilet soaps, the Lundborg perfumes, and  
 Gosnell & Kemp's Florida water. Messrs. John Gosnell &  
 Co.'s display in the middle of the exhibition is more creditable  
 to British advertising skill than to the artistic capacity of the  
 nation. Its most prominent feature consists of a huge  
 canvas balloon in the shape of a bottle 40 feet high and  
 labelled to imitate a bottle of cherry blossom perfume.  
 What a falling-off in style from the elegant crystal perfume  
 fountain by which Mr. Rimmel made his manufactures  
 famous in 1851! Messrs. Maignen & Co. (Limited) by means  
 of a series of filters are extracting pure water from deep-  
 coloured solutions of ink, permanganate of potash, sulphate  
 of copper, sulphate of iron, &c. Messrs. Godfrey & Cooke  
 show their chloride of ammonium inhalers, recently noticed  
 in this journal. Mr. Hickisson contributes his Crystal Palace  
 Daughter of the late John Bond's marking ink, showing the  
 effective way in which a dozen bottles are displayed in showy  
 cases, and Messrs. Parkinson & Son, Burnley, have a small  
 case of their baking-powders. Another stand near this one is  
 attended by half-a-dozen young ladies, whose simple business  
 it seems to be to display the abundance of their tresses, pro-  
 duced, it is implied, by the use of Koko-Maricopas, the agent

for which is Mr. William Cadman, Manor Lodge, Worlingham  
 Road, East Dulwich. Lastly, we must mention a most  
 respectable-looking case sent by our old acquaintances, Thomas  
 Myers & Co., of Liverpool, York, and Hull. They show



KOKO-MARICOPAS; HAIR CULTIVATION.

samples of the cattle spice familiar not only to British  
 tradesmen, but also to British judges and juries. Here it is  
 presented in a style to attract the very elect. Vases of the  
 spice are surrounded by other vessels containing what are  
 professed to be, we suppose, its ingredients. For the infor-  
 mation of holders we may mention that these ingredients  
 appear from this collection to be turmeric, rice, caraways,  
 liquorice, capsicums, hops, gentian, aniseed, fenugreek, and  
 fennel.

#### UNITED STATES.

The American section comprises less than a score of ex-  
 hibitors altogether, and only one of these is at all related to  
 the drug trade. This one is the firm of Parke, Davis & Co., of  
 Detroit, who show their various pharmaceutical preparations,  
 fluid extracts, coated pills, &c., and a very fine herbarium of  
 South American cinchona specimens collected by Dr. Rusby,  
 one of Messrs. Parke, Davis & Co.'s medical explorers.

#### GERMANY.

The German section surpasses all the rest, at least in  
 the chemical and pharmaceutical exhibits, if not in other de-  
 partments. Most of the firms whose names are now familiar  
 on this market and a great many others are to be found here-  
 abouts, and the collection of fine pharmaceutical chemicals  
 is one of the best that has ever been brought together. One  
 of the most perfect displays is that of Mr. H. Trommsdorff,  
 of Erfurt. Mr. Trommsdorff makes a leading article of  
 sozoiodol, which is advocated in some quarters as a substi-  
 tute for iodoform. It is an artificial chemical combination  
 containing about 53 per cent. of iodine, 20 per cent. of car-  
 bolic acid, and 7 per cent. of sulphur, and is applied in the  
 form of salts, such as those of sodium and potassium, and less  
 frequently as lead, zinc, ammonium, mercury, &c., compounds.  
 Mr. Trommsdorff's case contains, besides a very large number  
 of the rarest alkaloids, inorganic compounds in the range of  
 modern pharmacy. Prominent among them is aloxan, a  
 derivative of uric acid, which colours the skin a fine red, and  
 is consequently in great demand as a "rouge," a dilute  
 solution being employed for that purpose. Asarone is also  
 shown. It is a camphor obtained from *Asarum Europæum*;  
 and amongst other curiosities are filimelissic acid, a decom-  
 position product of filicic acid; fluoride of germanium and  
 potassium, in beautiful white crystals; suberic acid, in long  
 colourless needles, prepared by the oxidation of cork or of  
 fixed oils, &c.

Another noticeable exhibit is that of Messrs. Schimmel &  
 Co., of Leipzig, who submit samples of all their famous essen-  
 tial oils and novelties in a comparatively small case which is  
 valued at 1,500*l*. A specially interesting article is the otto  
 of rose manufactured from flowers cultivated in Germany.

Messrs. Benno Jaffé & Darmstaedter, of Martini Kenfelde,  
 direct attention to their lanolin by exhibiting the product  
 in various stages of manufacture, and illustrating the processes  
 adopted by which the elegant ointment base lanolin is  
 prepared from the unwashed wool. The water from the  
 first operation of washing can be watched through the suc-



ceeding treatment until the lanolin appears as a milky emulsion and passing through various intermediate grades of purity as the pure anhydrous article. Messrs. Burroughs, Wellcome & Co., of Snow Hill, are sole agents in England for this firm.

Wool-fat is also exhibited by the firm of J. D. Riedel, Berlin, which is represented in London by Messrs. R. W. Greef & Co., of 29 Mincing Lane. The wool-fat prepared by this house is known under the name of "Adeps laræ puriss." Other pharmaceutical articles and specialties are also to be met with here, the best known being the genuine Dalmatian insect powder—the terror of all smaller vermin. Also noteworthy are specimens of pure methylene chloride, of pepsin, of caffeine, of cocaine, of arbutin, and other substances. Mr. Riedel gives special prominence to a large sample of monobromide of camphor, which has unfortunately deliquesced.

The preparations of Bayer are exhibited in the stand of Dr. Kade's Oranien-apotheke, Berlin, where the new antipyretic phenacetin, sulphonal, one of the latest hypnotics, saccharin, and preparations of strophanthus and ergot can be found. Also compressed medicines of various kinds are included. Dr. Kade calls his compressed medicines "tablette"; Mr. Dieterich, who shows them prominently close by, calls them "tabulettae."

The Kronen-Apotheke of Radlauer in Berlin shows medicine chests fitted and packed for conveyance. Similar arrangements are also contributed by the Simons-Apotheke of Berlin, which has also sent specimens of concentrated and compressed medical agents, the preparation of which is the centre of a good deal of competition just now among German pharmaceutical chemists. This firm send a compact little pharmacy for the use of a country medical man. It is about 4 feet high, 2½ feet inside, and 6 inches in depth, and is intended to fit in a recess. The case contains about a gross of bottles, most of the drugs being in the form of compressed tablets. There are also drawers for utensils, bandages, and sundries. Mr. J. Levinsohn, Berlin, is also represented. This house is one of the oldest manufacturers of gelatine capsules for liquids. Specimens containing the mixture of creosote and balsam of tolu, so much in demand in Germany for administration in phthisis, are on view. Creolin or Jeyes' disinfectant is the principal article exhibited by William Pearson & Co., of Hamburg, while MM. Siebert, of Hanau, are conspicuous by their platinum apparatus, and by other appliances known and used in the laboratories of the world. Specially interesting to the chemist are the exhibits of Warmbrunn Quilitz & Co., of Berlin, including all articles of glass-ware required for the fitting of a laboratory or dispensary. They show blown-glass cylinders more than 5 feet in height, and, by special permission of the Prussian Minister of War, two ambulance dispensaries which were made by the firm for the commissariat department of the German army. Ludwig Rohrmann, of Krauschwitz, near Muskau, sends some instructive models of installations for the manufacture of muriatic, nitric, and acetic acids.

The firm of C. F. Asche & Co., Hamburg, exhibit among other products the so-called "Njimo" preparations. These, under the form of essences, extracts, and pills, are prepared from the bark of the njimo tree, which is said to be highly esteemed by the natives of West Africa in cases of fever, indigestion, and liver and kidney diseases. As the njimo is obtained from the German colony Cameroon, in West Africa, the remedy is likely to get a good start from patriotic motives.

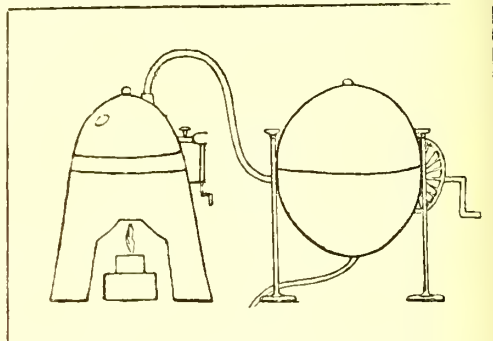
Austria-Hungary's medical and pharmaceutical displays are mostly limited to natural mineral waters, Ilunyadi Janos leading, and about a score of others competing with it.

#### FRANCE AND BELGIUM.

The quack element decidedly prevails in the medical and pharmaceutical sections of France and Belgium. The latter country shows some good surgical appliances and several displays of shop-fittings: for the rest, its indications of scientific pharmacy are almost all proprietary compounds. Progress is represented by a stall on which are electro-magnetic medals guaranteed to cure all manner of diseases by simply wearing them. This is announced as the medical and scientific triumph of the nineteenth century. The medals are sold at five francs each.

French pharmacy is all grouped in one pretty block of

uniform cases, and consists almost entirely of "specialities." Mr. C. H. Thevenot, of Dijon, the maker of the elegant French perles and capsules, is perhaps the only exhibitor in the pharmaceutical section who is not pushing what we call a patent medicine, and the production of which is regarded as such a disgrace to British and such a glory to French pharmacy. Another gentleman, Mr. Doucedame, of Senlis (Oise), gives a very scientific appearance to his collection of dragées by exhibiting with them a model of his "appareil à drageifier," which with its many taps and tubes and joints and cogwheels has a very formidable appearance. It is slightly represented in the subjoined diagram. Mr. James



of 7 Rue de Buci, Paris, makes his case attractive by arranging in it a collection of tapeworms, each in its separate bottle, and each labelled with tickets indicating the lengths of the worms and the dates when they were "rendus," in consequence of taking Mr. James's "taenifuge infallible."

In another section Messrs. Durafort & Fils are setting up a fine show of their seltzogenes, syphons, and aerated-water apparatus.

Among the general trophies exhibited we find an attractive display made by Fahlberg, List & Co., of Salbke-Westerhusen a/d Elbe, the patentees and manufacturers of saccharin. The object of this exhibition is to indicate the uses to which saccharin is now being put. There are saccharin in powder and in tablets and in the form of syrup (1 to 1,000); fruits preserved by saccharin; biscuits sweetened by it; pills coated by it; and dated specimens of bouillon, hay infusion, and raw meat preserved by it.

### Foreign and Colonial.

**OPIMUM-SMUGGLING.**—Last month the authorities at St. Louis got suspicions of a large box in their freight dépôt similar in shape to those in which upright pianos are packed, and labelled "Handle with care." They opened it and found packages of opium prepared for smoking purposes, and valued at \$30,000. The box was addressed to "Mrs. L. Lewis, Tulare, Cal.," there being nothing to indicate the place whence the drug came, except a small label on which was written "Fort Wayne, Indiana." Collector Lancaster thinks the box came from China, round the world, *via* St. Louis, in order to facilitate its being smuggled to its destination without paying the duty.

**JAPAN WAX** is obtained from a tree, *Rhus Succedanea*, which is found in Japan, China, and throughout the East Indies generally. In the Japanese language it is called *haje* or *haze*. The tree commences to bear fruit when five or six years old, and increases its product every year, till at fifty years a single tree will produce 350 lbs. of berries, from which 70 lbs. of wax can be obtained. The wax is formed in the middle of the berry, between the seed and the skin, like the pulp of a grape. It is extracted by boiling the berries in water, and allowing it to cool, when the wax separates out in a solid cake. The specific gravity of this wax is 0.970, and its melting-point 131° F. It is largely used, either alone or mixed with tallow, by the Chinese in the manufacture of candles. The principal port of export is the city of Osaka, whence, in 1876, nearly 2,000,000 lbs. of the wax were shipped to London.



## GLASGOW INTERNATIONAL EXHIBITION.

## SPECIAL REPORT.

## PHOTOGRAPHIC AND OPTICAL INSTRUMENTS.

CONTINUING our remarks on exhibits which come under this heading we may call the attention of visitors to the case No. 802 (James Brown, 76 St. Vincent Street, Glasgow) which contains a unique collection of spectacles illustrating the historical aspect of these useful aids to sight. The collection belongs to Mr. W. Dunscombe, of Bristol, and contains many curious forms of eyeglasses, spectacles from the Far East, and some made or used by noted philosophers of past generations. Mr. Brown exhibits other optical goods, and at the adjoining stand George Mason & Co., 180-186 Sauchiehall Street, Glasgow, take some trouble in exhibiting and explaining, by means of an intelligent attendant, the uses of photographic apparatus generally. Here England's Washer is seen in action. This is a machine for washing prints, which, by a simple automatic arrangement on the water-wheel principle, perpetually shakes the prints, so that every part of a print is washed, and it is almost impossible for two prints to stick together.

Attention may also be called here to the exhibit at Stand 806, by F. C. Rein & Co., 108 Strand, W.C., of an optical apparatus. The exhibit shows to what a pitch of elegance instruments for "making the deaf to hear" have been brought, the most common articles, such as a fan, being employed to conceal the ear-trumpets. Stethoscopes and dental instruments are also shown here.

## SOAPS, OILS, AND CANDLES.

The manufacture of soap is one of the oldest industries of the Christian era, yet it is only within the past fifty years that it has been relieved from the spirit of empiricism, and that "household soap" has become a reality. This fact is so patent that some are apt to forget that the article is unquestionably one of great antiquity. The prophets Jeremiah and Isaiah speak of soap, but the "soap" then in use was alkali, now represented in the commonly-used soap powder, which, though not of the same composition, is used in a much similar fashion to the *borith* of the Scriptures. When we come to the days of Pliny—the first century of the Christian era—we find soap in common use. In Pompeii there was a soapery, and soap in a state of good preservation has been obtained from the ruins of that fated city. Pliny states that the art of soap-making was discovered by the Gauls, and the Gauls were proficient in it. This fact takes us farther back, and it may be that the actual invention of soap dates before the present era. But in those dark ages which intervened between then and the seventeenth century little progress was made in soap-making. Barilla was the chief source of alkali used during the seventeenth and eighteenth centuries, and it was not until Leblanc devised his process for the manufacture of alkali that soap was produced in quantity to supply the needs of the world. Barilla soap has not ceased to exist, but it has been relegated to the dermatologist's *materia medica*, and it may be that Pliny's soap of goat's tallow and beechwood ash is still made in some odd corner of the world, but other things known and unknown are now garnered on behalf of the soap-boiler. Liebig has said that "the quantity of soap consumed by a nation would be an inaccurate measure whereby to estimate its wealth and civilisation." The quotation is somewhat hackneyed, and Mr. Lyon Playfair has somewhat roughly discountenanced it by telling us that sulphuric acid is the better index; but, however that may be, it is worthy of note that from 1711 to 1853 the civilisation of this nation must have been retarded in a sense by a tax on soap, which was never less than 1*d.* per lb., and reached 3*d.* per lb. of hard soap in 1816. With the repeal of the tax in 1853 a great impetus was given to soap manufacture, and now the price of some household soaps is within a fraction of a penny of the lowest tax which has ever been placed upon it.

In the Glasgow Exhibition a good idea may be obtained of the present condition of the soap-making industry, as our Court VIII. contains a considerable number of exhibits in this department. Looking over these exhibits one is naturally struck with the conventionality of style which is charac-

teristic in most of them. Soap-makers appear to vie with each other in constructing some hybrid architectural arrangement, or they branch off into art by presenting us with the sculptured features in soap of historic characters or notable persons now living. If some manufacturer could make a little historical collection consisting of apparatus used in making soap during times gone by, with samples of their own make to represent progress or otherwise with the advance of the times, the collection would be sure to be closely inspected, and would do good. Something like this is done by one or more exhibitors of oils, and these exhibits, we have noticed, are closely inspected by visitors. Robin & Houston, of Snowdon Soap Works, Paisley, in their case, No. 770, show a collection of parti-coloured soaps, the base of the case being laid with "tiles" of this material, and they exhibit in a series of fifteen handsome jars the chemical aspects of soap-making, starting from soda ash, and going through the purification of the fats and resin used to the recovery of glycerine from the lyes. In another part of the case devoted to candles they show equally interesting series illustrating the chemical aspects of paraffin refining and stearine refining. Alexander Ogston & Sons, Aberdeen, one of the oldest firms of soap manufacturers, impart local colouring to their exhibit (Stand 771) by making the principal part of it a turret of Balmoral Castle made from glycerine, honey, and brown Windsor soaps, which are also exhibited in tablet form along with other varieties packed in pretty boxes. Palm oil is shown in course of treatment for the separation of glycerine and stearine, the latter being used for candle-making.

At most exhibitions during the past few years J. Crosfield & Sons, of Warrington, have taken a prominent place with their "Perfection" and other soaps. In the present exhibition they are not a bit behind, the gigantic case at Stand 775 containing a handsome castellated structure made of different coloured blocks of soap, with handsome carved pedestals at each corner. The "Perfection" soap, the peculiarity of which is that it possesses great cleansing properties and is yet free from uncombined alkali, is shown in its different forms. In the next stand J. Margerison & Co., of Preston, have a display in two parts, one a case of toilet soaps, and the other a tower in white soap, ornamented with bas-reliefs after Thorwaldsen and Giovanni. This is one of the handsome things of the kind which has been shown at any exhibition, the art represented being of the purest and most classic description, while the manufacturers of the soap have "caught" the marble tint for the soap of which the tower is made. Several busts of royal and other notable persons are placed round the tower. In toilet soaps the firm have adopted the French style both as regards colours and shapes, the pink and brown being very nice, and the white soaps as "white as the hawthorn bloom, that opens in the month of May." Amongst other exhibitors of soap are Isdale & McCallum, Caledonia Soap Works, Paisley, who show their golden, pale, and cold-water soaps, cast into busts and figures of such Scotch characters as Bailie Nicol Jarvie and Maggie, and such eminent men as Livingstone and Burns. Sutherland & Abercrombie, Park Soap Works, Glasgow, exhibit their borax and toilet soaps at Stand 772. A very striking exhibit in the soap line is made by Alex. Whitelaw, 87 Sydney Street, Glasgow. The case is a large one (No. 781) and contains an assortment of household and special soaps for manufacturing purposes, as well as the materials used in their manufacture. The latter include some beautiful, almost water-white, distilled resin made by the action of superheated steam on ordinary resin; palm oil in various stages of purification; and Shea butter, a new soap material, imported from the Niger district. We may take the exhibit of Price's Patent Candle Company (Limited), Battersea, as the connecting link between soap-makers on the one hand and paraffin refiners and oil manufacturers on the other. The link is a good one and handsome. The centre of the case is occupied by a stand surmounted by a palmatine bust of the Queen, with a statuette of Bartholdi's "Liberty" at each of the four corners, the famous lamp being replaced by vases which are used for holding candles or soaps. Below these we have samples of the company's toilet soaps, glycerine, glycerine jelly, and similar preparations. Ceratine, a *paraffinum molle* made by the company, which is, as far as the eye could judge, a homogeneous pre-



paration, is shown in bottles put up for sale. Night-lights and candles, which are the principal part of the firm's manufactures, are shown in great variety, and a model of a candle-making machine adds to the interest of an exhibit which from its position and artistic appearance is one of the most attractive in Court VIII.

In our first report we referred to the richness of the exhibition as representative of the shale distilling industry. Linlithgowshire with the country adjacent has excellent deposits of the bituminous slate which has helped to make the name of James Young famous as the father of the paraffin industry. American and Russian petroleum are running this industry very hard at present, and the numerous companies which have sunk capital in it have but poor reports to submit to their shareholders, but these circumstances do not influence the high quality of their products. In the long run competition in quality influences competition in price, and here the fact is exemplified. Young's Paraffin Light and Mineral Oil Company (Limited), the Broxburn Oil Company (Limited), and the Pumpherston Oil Company (Limited) are the principal exhibitors of these products, the case of the first-named being perhaps the most interesting, owing to the fact that it contains the letter written in 1847 by Lyon Playfair to James Young regarding the use of paraffin as an illuminant and the discovery of a petroleum spring in the North of England. Paraffin busts of Playfair and Young are also shown in the case, together with the general manufactures of the firm. This court also contains a dozen or more cases devoted to lubricating oils and compounds, and other oils used in jute manufacture. These are but remotely connected with pharmacy, and need not be referred to here. At No. 784 W. Walls & Co., 62 Frederick Street, Glasgow, show crude and refined sperm oil, with a beautiful horseshoe block of spermaceti in the centre. The great petroleum fields of Russia are represented in the exhibition by an exhibit in Court XXIV. (No. 1,364) from the manufactory of A. Oelrich & Co., of Baku and elsewhere, who through their Glasgow agent (Mr. W. T. Geddes, 84 Gordon Street) show excellent white and yellow "vaseline" and vaseline oil. The paint and varnish trades are well exemplified in the exhibits of Blacklock & Macarthur, of Tradeston, Glasgow, who show colours principally; A. Fergusson & Co., of the Glasgow lead and colour works, who show a very extensive and interesting series of lead colours, produced by corrosion and otherwise, their exhibit at stand 805 also including wood stains. Griffiths Brothers & Co., of Dashwood House, E.C., make an imposing exhibit at 813 of their "Aqual" paint, and many other of the paints and varnishes which have helped to make house-painting a popular pastime. Dacker Brothers, of Birmingham, show varnishes exclusively at stand 815 and at 785 The Belfast Paint and Colour Manufacturing Company exhibit the "Woodstock" oxidised enamel. Inks are represented in the exhibition by the manufactures of H. & J. Lyons and P. Cochran & Co. Printers' ink, the chief manufacture of the firm A. B. Fleming & Co. (Limited), Caroline Park, Edinburgh, is shown in the very artistic case at stand 763, refined vegetable and mineral oils—the latter all bloomless—helping to make up an interesting exhibit. As being allied to industries which furnish us with light, the exhibit of Bryant & May (Limited) finds a place in Court X., No. 730, the many species of the match genus which they turn out being here shown along with beautiful tin-ware boxes.

#### FOOD SECTION.

In this section the exhibits are very numerous, and are better looked after than those in other courts which we have already referred to. Taking them in the order that we find them in Court XXI., J. Schweppe & Co.'s case (No. 829) is the first we reach, and here the firm show their manufactures in that artistic and well-finished style which they have held to since they were appointed makers to the Duchess of Kent and Princess Victoria in 1836. Adjoining this exhibit is that of Cantrell & Cochrane, who, like many other of the famous aerated-water makers, have a branch factory in Glasgow, and display in case 830 a small but good collection of their products. Case 831, devoted to the manufactures of G. & P. Barrie, Dundee, is the only one, as far as we could see, which contains samples of beverages sweetened with saccharin, and the firm otherwise give

evidence of enterprise and skill. Glasgow can boast of having perhaps the purest water-supply of the kingdom, and consequently aerated-water manufacturers there have a happy time of it. When we come to London we get to a water-supply which must vex sorely the hearts of the aerators. The Salutaris Water Company, of 243 Fulham Road, have gone to the exhibition to show the visitors the horrors of London water and how they purify it. Salutaris water is distilled water carefully aerated, so that it makes a pleasant drink quite free from the insipidity of distilled water. The company's tasting-stall is No. 841. Five stands farther on we come to the exhibit of Dean, Hadden & Co., of Belfast, who show brilliant aerated waters and cordials; and again five stands, and we reach the carefully arranged and interesting exhibit of the British & Foreign Mineral Water Company, New City Road, Glasgow. This comprises both table and medicinal waters, and the substances which enter into their composition. There is here also a quaint model in silver of aerating apparatus and other machinery used in the manufacture of the waters. William Corrie & Co., Belfast, occupy No. 851 with their ginger ale, other aerated waters, and cordials. Local effort is further represented by Frazer & Green in another court, by the Greenock Apothecaries' Aerated Water Company (No. 859), and the International Mineral Water Company, Glasgow (No. 863). These, with the exhibit by W. A. Ross & Co., of Belfast, in Court XX., are all the aerated water exhibits, unless we include fluid magnesia, which is exhibited by Sir James Murray & Son at Court X. Their case (No. 737) is a very handsome one, and contains a good display both of the fluid magnesia and camphor.

Beverages are further represented in various exhibits of lime-juice, the best of these, both as regards size and style, being that of the "Montserrat" brand, Evans, Sons & Co. (No. 835). Here one or two young ladies are in constant attendance, spreading attractive literature and mixing tempting draughts for the thirsty visitors. It is surprising how many articles the firm have succeeded in making Montserrat lime-juice the basis of. There are aromatic and tonic cordials, blood-purifying cordials, sauces, and the lime-flavoured pastils, which may be regarded as the solidified juice. Next to this exhibit is that of Feltoe & Sons, 27 Albemarle Street, W., whose "Specialité" lime-juice always carries with it a good name, and it has the excellent virtues of being free from mustiness and proneness to decompose on exposure. Rose & Co., of Leith, have a good display of a similar article at stand 836.

Turning to the collections of food stuffs, we find something new in the condensed milk line in the milk powder manufactured by the Swiss Milk Company (C. Lawinski, 50 Mark Lane, E.C.). This is milk or cream milk reduced to a state of absolute dryness by careful condensation, and preserved in the form of a fine powder, which dissolves readily in cold water. In this form it is specially valuable for admixture with cocoa, powdered malt extract, and other substances which are used for their nutritive or medicinal properties. Each of the forms contains about 96 per cent. of solids, consisting of fat, albumen, and casein, milk sugar, and the salts peculiar to milk. One of the powders is made from skim milk. Milk powder does not alter when exposed to the air, and for that reason it is now used by one or more of the large steamship companies. The older fashioned condensed milk is exhibited by Henri Nestlé, 9 Snow Hill, E.C., at stall 833, the exhibit also including milk food for infants, and in the stand adjoining, which the catalogue tells us is occupied by mineral waters, the visitor will have an opportunity of tasting something more substantial, in the shape of King & Co.'s desiccated soups, which fair attendants serve up hot in pretty Dresden china cups. The soup should be allowed to settle a little before a turn is taken to stall 879; here the Canadian Meat and Liebig's Wine Company, of Liverpool, have erected a large and handsome stand with a bar. The exhibits consist of Canadian extract of meat, the medicinal wine, and other articles prepared therefrom. The wine appears to possess marked nourishing power, and the company is not slow to allow visitors to test the fact at this exhibition.

Other dietetic articles of animal origin are exhibited by Gridley & Co., of Bishopsgate Avenue, E.C., who show Russian and Brazilian isinglass of fine quality at stall 860, together with brewers' isinglass for fining purposes. In



**Court XXIV. Fischer & Schmidt**, of Höchst-on-Maine, have a very varied exhibit of gelatine, this including that used for ordinary purposes, for making jellies of different colours; emulsion gelatine, a specially prepared article for photographic purposes, as well as other varieties, the whole exhibit being unusually good. Next to this exhibit is one by **Leffler**, 22 Pank Street, Berlin, of preparations of rennet and annatto for dairy purposes, and also of pepsin for medicinal purposes. Here the visitor will get samples for examination at his leisure. Foods for animals are exhibited by **Statts Patent (Limited)**, who have an attractive exhibit in Court XX., No. 880, wherein the most important of their manufactures are shown, these including handy cases of medicines for the dog, and the other requirements for ensuring the healthy condition of man's four-footed friend.

#### MISCELLANEOUS.

There is still much in the exhibition which pharmacists have an interest in, but we have arrived at a point whereat ordinary classification is at a discount. The numerous exhibits in the dye class, it is true, are so closely allied to the chemistry of pharmacy that a large amount of time may not profitably be spent in examining them. This is the case more especially with the exhibits of the **Society of Chemical Industry**, Basle (No. 739A); of **Fred. Bayer & Co.**, Elberfeld (No. 724); **B. Kuhn & Schroeder**, Manchester (No. 742); **the Saint Denis Dyestuff & Chemical Company (Limited)**, Paris (No. 745); and the **British Alizarine Company (Limited)**, Silvertown (No. 741). These exhibits illustrate in an excellent manner how greatly science, more especially organic chemistry, assists in the production of alizarine and alizarine dyestuffs, and how closely mechanical synthesis has approached to the products of natural synthesis. Synthesis, indeed, is the prevailing factor in this industry, and it is for this reason that we find antefibrin and salol in Kuhn & Schroeder's case, and phenacetin and sulphonal in the artistic exhibit by Bayer, of Elberfeld. These products are in the strict sense accidentally discovered therapeutic agents; and it is the dye-makers whom we have to thank for so many additions to the class of antipyretics during recent years.

But pharmacy more particularly claims our attention in what remains of our space, and it is appropriate to notice the handsome case which the **York Glass Company (Limited)** have placed in Court XXVI. to illustrate the extent to which they supply the needs of the pharmacist in glass-ware. The mahogany base of their case shows the variety of glass drawer labels which they turn out, while it supports numerous styles of jars, shop-rounds, measures, &c., the whole being surmounted by swan-necked show bottles and several specie jars. Beside this **A. M. Allen & Co.**, of the North Glass Works, Glasgow, appear somewhat modest with their glass-ware; but their "Quinine tinted" medicine bottles have so unique an appearance that the visitor naturally inspects them closely. This glass differs from the expensive uranium glass. The quinine tint is a pure pale blue colour, which sets off admirably the appearance of certain fluids. At the next stand, No. 1,188, **J. Dunlop, Mitchell & Co.**, of Ingram Street, Glasgow, make a varied show of glassware, in which druggists' bottles do not largely figure.

Court XXIII. is one of the attractive courts of the exhibition. Here are grouped exhibits of an artistic character which invite the close inspection of the visitor, and are naturally, in the absence of a sufficient number of exhibits to make a pharmaceutical section, **Burroughs, Wellcome & Co.** have found a place for one of those artistic structures which they have created from the carved wood screen which was the feature of the Indian Palace at Kensington last year. The exhibition has received one of the largest of the show-cases made from this screen, others being deposited in the Barcelona, Brussels, Melbourne, and other exhibitions now attracting visitors in different parts of the world. In addition to the show-case a large silver perfume fountain occupies part of the space, and attracts considerable attention. It is impossible in reasonable space to do justice to the varied character of the specialties which Burroughs, Wellcome & Co. exhibit at Glasgow. Their own manufactures, especially the tabloids, figure largely in the case, with many kinds of medicine cases; the perfumes and soaps of Lundborg, the digestive ferments made by Fairchild, the effervescent preparations of Bishop, and other articles which are closely identified with the name of the firm are shown, and no effort

is spared to allow free inspection and testing of those of them which permit of such processes. One novelty will be observed, and that is a ponderous visitors' book for the reception of the names and addresses of medical and pharmaceutical visitors, with spaces for critical remarks. In this anyone by a stroke of the pen may indicate a request for specimens of anything in the case which may call for closer examination than a visit to the exhibition affords. The firm also provide accommodation for letter-writing, and this will no doubt be well taken advantage of during the summer, the object being to make the stand the place for pharmaceutical and medical appointments. In Court XXVI. there is an exhibit of homoeopathic medicines by **Dr. W. Schwabe**, of Leipzig, which is likely to open the eyes of those who are only acquainted with English homoeopathy. The completeness of the exhibit is one of its characteristics, but the remarkable feature is the low retail prices which are affixed to the articles. In the same court there is a good exhibit of French, German, and Turkish drugs and chemicals by **J. W. Martyn & Co.**, of 12 York Street, Glasgow, which includes opium, scammony, and the like. A variety of water-filters will be found in Court IV., **Slack & Brownlow**, of Manchester, and **Barstow & Sons**, of Pontefract, being the principal exhibitors, while in the Women's Industry Section **Hinde & Co.** have a brush-making stand, and a corner is well filled by the **Crown Perfumery Company**.

The skipping from court to court which this report occasionally indicates is a proof that the arrangement of the exhibition is not altogether on a proper basis; but when we state that there is an artisan section, a French section, a section for foreign exhibits, and so on, it will be seen that this arrangement assists in placing variety before the eyes of the visitors; and, after all, exhibitions nowadays are mainly for the amusement of the public. In this respect the Glasgow Exhibition is certainly not behind any of its provincial predecessors.

#### AT THE COUNTER.

**SHE BELIEVED IN IT!**—We are informed that a lady who had employed Phenacetin-Bayer with gratifying results as a remedy for neuralgia went into a West-end chemist's the other day and ordered one pound's worth of it in 8-grain packets.

**NEW ASSISTANT.**—"Beg pardon, sir, but that young lady who just went out asked you for infant's powder." Old druggist: "Yes." "But you gave her regular face powder." "Yes; I always make that mistake. That's how I got up such a big trade. If a woman really wants infant's powder she will insist upon having it."

**INDIGNANT PHYSICIAN:** "Man, what have you done? You sent my patient the wrong prescription, and it killed him." Druggist (a calm man, accustomed to abuse): "Vhell, vhat vas der madder mit you? Last week I send your odder patient der righd berscription, and dot killed him. How can somebody blease sooch a man?"

**CUSTOMER:** "Have you any real good strong insect powder? I have tried a good many makers', but it does no good. I hope yours is really what it pretends to be." Chemist (with dignity): "Sir, our insect powder is like Caesar's wife." Customer: "What! did she kill bugs?" Chemist (with hauteur): "No, sir. She was above suspicion."

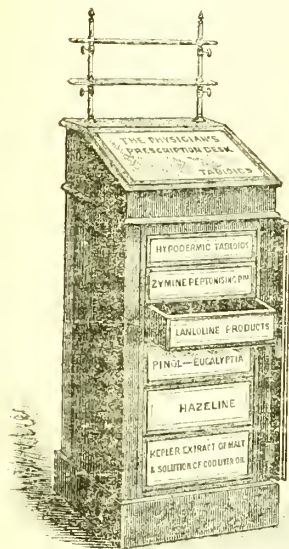
**THE GREAT UNQUALIFIED.**—The other day a man brought a bottle containing some olive oil to a well-known pharmacist's in Sheffield and asked that "three drachms of white vitriol should be put into it." He added that he got the oil at —'s (naming an unqualified firm), but they "couldn't supply the white vitriol as it was poison." The recent activity of the Pharmaceutical Society seems to have put illegitimate vendors on their guard.



## Notes of Nobelties.

### BURROUGHS, WELLCOME & CO.'S PRESCRIPTION DESK.

THE latest evidence of the enterprise and liberality manifested by Messrs. Burroughs, Wellcome & Co. in their transactions with chemists is the production of a very handsome cabinet, a sketch of which accompanies this notice. The cabinet

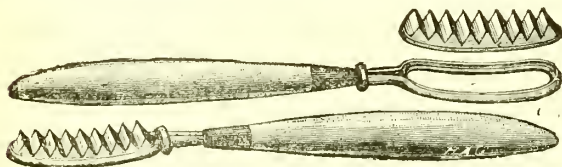


complete stands some 3 or 4 feet high, and is finished throughout in the best possible style. On the top is a desk with a bevelled glass lid, and two shelves, supported by elegant bronze uprights, are fixed at the back of the desk. The six drawers in the cabinet are very neatly labelled in gold letters on bevelled glass fronts with the names of the principal articles of which the firm are makers or for which they are agents. The cabinets are made in oak, walnut, mahogany, or platanus wood. Their cost price is something

like 15*l.* each, but Messrs. Burroughs, Wellcome & Co. will supply one to a chemist for 5*l.*, on condition that it shall be used in his shop as a store for their goods. The idea is that it will serve to attract physicians to the shop, and offer to such clients an opportunity to inspect the latest pharmaceutical novelty. It should be added that the desk without the cabinet, or a corresponding counter show-case, will be supplied by the firm on similar conditions to any chemist ordering 10*l.* worth of their specialities.

### A FELT TOOTH-BRUSH.

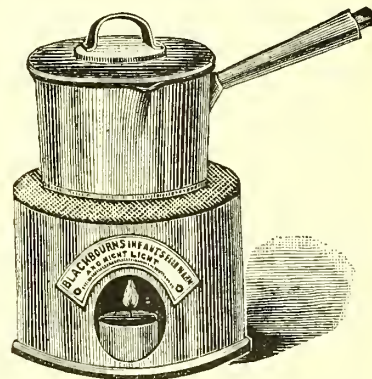
MESSRS. H. A. GOODALL & Co., of Bartlett's Buildings, Holborn, E.C., are introducing a new tooth-brush, the claims of which are somewhat novel. As will be seen from the illustration, that the brush consists of two parts, a handle or holder



of bone and German silver, into which the felt brush fits and is kept secure by a ring catch. The brush is made of specially prepared felt, cut in such a manner as to present a number of fine points on the surface, the shape of which conforms well to the contour presented by the teeth. The felt is of a dark flesh colour and appears to be charged with a pulverulent cleansing material, which does its duty excellently, while the felt takes kindly to the gums. The holders and brushes are supplied separately, the latter in boxes of a dozen.

### NIGHTLIGHT FOOD-WARMER.

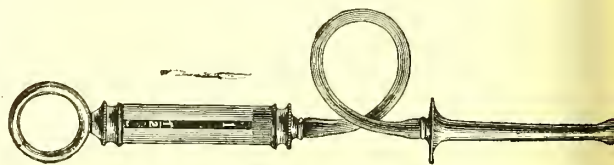
MR. HENRY DUNSFORD, of Manisty Lane, Liverpool, is introducing to the trade a new infant's food-warmer and night-light. This consists, as will be seen from the illustration, of



two parts, a support and a pannikin. The support is a tin cylinder with a hole in the side to let out the light, the top being covered with brass-wire gauze. The dimensions of the support are so adjusted that a uniform heat and light are maintained during the whole time that the nightlight burns, and the gauze top is so regulated as to keep the pan perfectly clean, only heated and smokeless air passing through the gauze. The apparatus is placed on the market at a popular price, yet it answers its purpose very well.

### GLYCERINE SYRINGE.

THE phenomenal success which has followed the proposal to use small injections of glycerine as a remedy for constipation has created a demand for small syringes specially suited for self-use. One of the best forms which we have seen is



that devised by Dr. C. H. Milburn, of Hull, the shape of which is shown in the figure. The barrel of the syringe is made of glass, and all other parts, except the flexible india-rubber tube which connects the nozzle with the barrel, are made of black vulcanite, the piston-rod being marked for  $\frac{1}{2}$  and 1 teaspoonful doses of the glycerine. This syringe is excellently adapted for self-use, and is elegantly finished. The manufacturers are Messrs. F. Schutze & Co., of 36A Aldersgate Street, E.C.

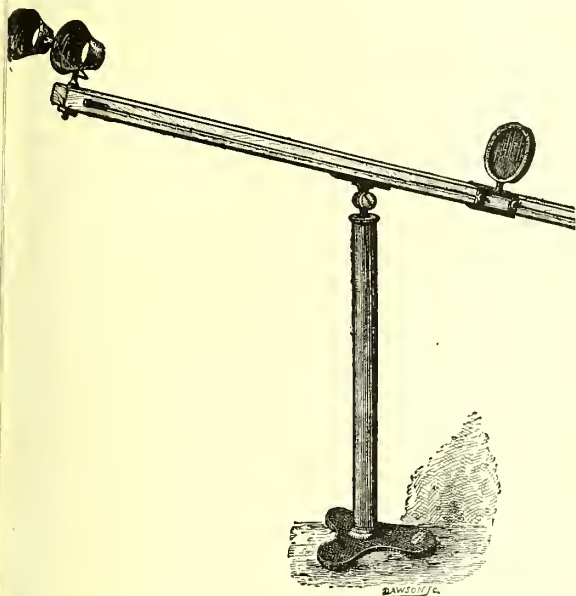
### WOOD WOOL FOR PACKING.

MESSRS. HENRY POUND, SON & HUTCHINS (Limited), of Deptford and Fenchurch Street, are now manufacturing wood fibre of various degrees of coarseness, and this is being sold under the name of wood wool, chiefly for packing purposes, but also as litter for horses. It is cleaner than straw, and, we are told, comes cheaper, for, though about 20 per cent. higher in first cost, wood wool goes 30 or 40 per cent. farther as a packing material. It is made in finer grades at higher prices. The agents for the sale of the article are Messrs. H. & F. Bouten, Suffolk House, Laurence Pountney Hill.



## MASON'S OPTOMETER.

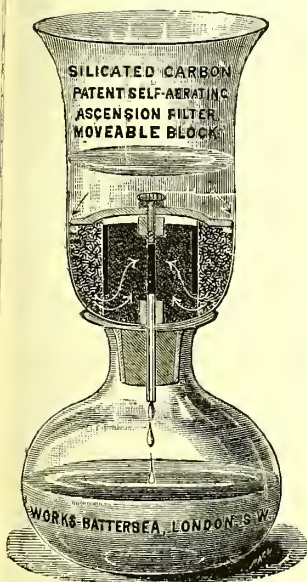
MESSRS. BOTWRIGHT & GREY, manufacturing opticians, of Spencer Street, Clerkenwell, have shown us a skilfully revised optometer, designed entirely by Mr. W. D. Mason, chemist and optician, 253 Cleethorpe Road, Grimsby, and



manufactured by themselves. The instrument is intended for testing the sight for spectacles, and instructions are given for ascertaining the sight, both for distance sight and for close reading. Scales are given on the bar along which the disc is moved, both in inches and dioptries, and the principle adopted is to ascertain the nearest and furthest point of distinct vision. This being ascertained, calculations are made to ascertain the correct focal distance (instructions for which are given) so that the patient shall have glasses optically suited to his sight. The instrument is supplied at a moderate price.

## NEW SELF-ÆRATING FILTERS.

THE SILICATED CARBON FILTER COMPANY have improved



in some details the popular self-ærating filters which they first brought out some two years ago. The porcelain covers ensure the supply of air in the carbon blocks, and these covers are made more efficient in the new filters. The water is made to pass through the carbon block in an upward direction, and the blocks themselves are easily removed and cleansed. It will also be noticed from the illustration which we give that the block is surrounded by a supply of loose charcoal, which materially assists in the purification of the water, and at the same time makes the filter a combination of the

most highly approved methods of filtration.

## PETAL DUST.

THIS is the title given to a richly odorous sachet which has been sold at a number of the recent exhibitions in London, and which combines antiseptic properties with fragrance. The proprietors are the Rosmarine Manufacturing Company, of Philadelphia, and of 54 Stamford Street, London.

## SPARKLING COCA WINE.

MESSRS. ARMBRECHT, NELSON & Co., of Duke Street, Grosvenor Square, to whom the popularisation of coca wine is largely due, have added to their series of wines one of a sparkling character described as "Vin Mousseux de Coca." Many patients to whom champagne or a sparkling hock is a useful beverage will find coca in this form a useful addition, and it cannot be said to detract from the pleasant flavour of the wine. Messrs. Armbrrecht, Nelson & Co. supply several other kinds of wine, such as port, sherry, Malaga, &c., also coccised. These wines are quite pleasant to the palate, and are remarkably invigorating.

## Trade Notes.

THE business formerly carried on at 23 Ormonde Street, Jarrow, by Messrs. Carr & Co., has been transferred to Messrs. Mason & Co., of South Shields.

THE SILICATED CARBON FILTER COMPANY, of Battersea, have recently executed a large order for a filtering bed for Antigua, to provide for the purification of the storm-water before it is stored.

WE are informed that Messrs. John Moss & Co., of the Galen Works, Deptford, have commenced the manufacture on a wholesale scale of the General Aperient suggested by Dr. Dobell in an article published in this journal last week.

MESSRS. STEFFENS & Co., of Magdeburg, Germany, have transferred their essential oil distillery and drug business to Messrs. Louis Güldner and Fritz Specht, who will carry it on under the style of Steffens & Co., Nachfolger.

MESSRS. JOSEPH & MARTIN OETTINGER, of Hamburg, announce that they will continue the business (established in 1849) formerly conducted by their father, the late Mr. H. N. Oettinger, under the same style as before, viz, H. N. Oettinger & Co.

IN consequence of the large number of inquiries for the pearl cachous originated by Mr. Kerfoot, of Manchester, Mr. Kerfoot has appointed Mr. H. C. Quelch, of St. Paul's Chambers, 19 Lndgate Hill, sole agent for the London district. Mr. Quelch will keep in stock all Mr. Kerfoot's manufactures.

A NEW and very useful catalogue of all kinds of optical instruments, spectacles, reading-glasses, field- and opera-glasses, microscopes, telescopes, barometers, &c., abundantly illustrated, and quoted at net prices, has just been issued by Messrs. F. Darton & Co., of 45 St. John Street, West Smithfield.

MESSRS. MAY, ROBERTS & Co. submit to us an advance copy of a new catalogue which they will issue to the trade very shortly. The greater accommodation which the firm's premises in Clerkenwell Road afford them appears to have sensibly affected the variety of their stock, as the new catalogue shows.

WE understand that Mr. S. M. Burroughs has purchased the Phoenix Mills, Dartford, which will henceforth be used as a pharmaceutical factory by Burroughs, Wellcome & Co. The original mills were the first paper works in England, and after their destruction by fire the present building was erected, and was named the Phoenix Mills. The premises have 40,000 square feet of floorage, have three artesian wells in the grounds, and have water-power and tidal navigation.



WE have received a sample of the revelenta manufactured by Messrs. Maclean & Sons, 11 St. Andrew Street, Edinburgh. This is a nutritious food for infants and invalids, the basis of which is dahl, "the Indian lentil of the Ganges." Although the food contains an unusual amount of nitrogenous principles, it digests easily, and is relished by dyspeptic people and others.

MESSRS. SEABURY & JOHNSON have removed the dépôt for their indiarubber plasters and other goods from Australian Avenue to the temporary charge of Messrs. Hawkes, Somerville & Co., of Whittington Avenue, Leadenhall Street. Mr. R. Seabury is now in London, arranging for enlarged operations in Europe, and intends before returning to establish in London a branch dépôt for the supply of the goods of his firm under the direct control of the house. In one of our supplements this week Messrs. Seabury & Johnson give a list of the principal goods which they offer to druggists.

DAHL'S AGENCY, of 41 Eastcheap, E.C., are now introducing a variety of their dyspepsia cakes for children, which is stated to have already achieved a considerable success in the United States. The cakes are made of the husks of various kinds of grain, and are said to be quite free from the admixture of any drugs. The taste, if not appetising, is certainly in no way disagreeable, much like bran, in fact; and as it is claimed that indigestion, constipation, and dyspepsia are radically removed by their constant use, the cakes ought to find an extensive sale in this country.

TASTELESS PREPARATIONS OF CASCARA SAGRADA.—We have received from Messrs. John Moss & Co., Galen Works, Deptford, a sample of bland Liquid Extract of Cascara Sagrada and an elixir of which it forms the base. The liquid extract is quite free from the nauseous bitter taste of cascara, but it retains the peculiar odour and other characteristics of the bark, including the undiminished aperient properties. It is evident that the nauseous bitter of cascara can be removed, or so modified as not to affect its therapeutic value. In the cascara elixir the "barky" flavour of the liquid extract is completely covered, so as to render the preparation sweet and palatable.

ON the principle that "the proof of the pudding is in the eating of it," Mr. T. Brooks, chemist, Louth, sends us a number of the preparations made according to the recipes which he offers, through our columns, to those who are less fortunate than himself, so far as inventive genius is concerned. Mr. Brooks apparently takes great trouble in practically perfecting his formulæ before he offers them to the trade, and while he does not hesitate to speak well of the characters and properties of the products, our examination of the half-dozen or more toilet preparations and medicinal specialities which he has sent us shows that he does not exaggerate, and we should think that the formulæ, with judicious pushing of the articles, would prove very remunerative. Mr. Brooks asks us to state that he no longer has an American agent.

BOEHRINGER'S PRODUCTS.—Messrs. F. W. Heilgers & Co., Great St. Helens, E.C., the London agents of Messrs. C. F. Boehringer & Söhne, have submitted to us a series of specimens of the manufactures of that firm, including various salts of the cinchona alkaloids, strychnine, caffeine, atropine, and cocaine, and their salts, and such products as podophyllin, chrysarobin, salicin, santonin, &c. As far as appearance and other marked physical characteristics show, these products are of a high-class order, and our more crucial examination of a few of the articles brings out several points of interest. These articles are purified sulphate of quinine, hydrochlorate of cocaine in large crystals, and podophyllin. The quinine is a bulky and snow-white sulphate, which we find to be practically free from other alkaloid than quinine, De Vry's chromatic test and Paul's modification of the B.P. test showing only a fraction of 1 per cent. of cinchonidine or cinchonine, while the B.P. permits 5 per cent. of impurity. The cocaine hydrochlorate is in exceptionally large crystals; taking three at random we found their weights to be 0.85 grain, 2.75 grains, and 1.47 grain. The salt is, we find, anhydrous, dissolves readily in water, and is free from secondary products, giving an immediate crystalline precipitate and a bright supernatant liquor by MacLagan's test. We find the podophyllin to be free from inorganic contamination, and to contain 80 per

cent. of ether soluble resin. These results are all satisfactory.

THE HERON BRAND SPECIALITIES.—For many years now the announcements of Messrs. Hearon, Squire & Francis, Coleman Street, E.C., have been associated with the figure of a huge vacuum evaporating apparatus, the employment of which in pharmaceutical manufacture has become indispensable to those who endeavour to meet the demand for concentrated medicines of reliable strength. We have now the opportunity, through the examination of a number of preparations which have been submitted to us, of judging the efficiency with which the firm carry on this department of practical pharmacy. Extract of malt, owing to the delicacy of its active constituent diastase, is a preparation which well indicates care or neglect in manufacture, and for that reason we take the "Heron" extract as an excellent proof that Messrs. Hearon, Squire & Francis give this department special attention. So carefully is the extract made that the ferment is scarcely affected during evaporation, and the result is a translucent preparation of pale amber colour, and so much thinner than usual as to pour out of the bottle freely, the starch-converting power of the extract being at the same time as high as that of the thick and glutinous preparations. Equally satisfactory are the liquid extracts of drugs, those in this class which are made from leaves, such as coca and damiana, possessing the characteristic chlorophyll colour, which proves that concentration has not impaired the therapeutic value of the remedy. In respect to compound preparations, the firm appear to have made a new departure. Cascara cordial, a pleasant-tasted, non-bitter preparation, which may be taken undiluted; soluble essences of ginger and lemon, which mix clear with acidulated water, yet are of full flavour; *ess. pro mist. ferri co.*, a clear liquid, which makes excellent Griffith's mixture; and various other concentrated mixtures and solutions are amongst their specialities, while their pearl-coated and gelatine-coated pills are well worth the attention of pharmacists. We may also note, for the benefit of those who put up their own toilet preparations, that the firm produces a beautiful glycerine-cucumber lotion, and their other preparations of cucumber (essence and pomade) are apparently the correct thing.

#### SUPPLEMENTS TO THE CHEMIST AND DRUGGIST.

IT will be noticed by subscribers that the practice of sending circulars to the trade by means of this journal instead of *via* the Post Office is a growing one. On this occasion we have the honour of conveying to eleven thousand chemists in this country and in the Colonies the circulars of twenty-five firms. In order to be able to stitch these up with our journal, and thus present the whole in a convenient, permanent, and useful form we have to sacrifice the advantages of newspaper postage and distribute our journal by book and parcel post or by carrier, in some parts of the world at greatly enhanced cost. The circulars themselves are costly to produce, and we trust we may without offence ask our subscribers on our own behalf, and on behalf of our advertising clients, to give a careful examination to the whole contents of this paper. There is contained in these advertising and supplementary pages an infinite variety of business information which the live business man cannot afford to neglect, and which, taken as a whole, provides the best and most easily assimilated collection of business announcements for chemists and druggists anywhere available.

The supplements issued with this number of THE CHEMIST AND DRUGGIST comprise the following:—

Barrett's Mandrake Embrocation is described at length in a circular issued by the proprietor, Mr. Joshua Barrett, of 21 Beresford Road, Highbury. Mr. Barrett has found his preparation very successful in the treatment of headache, rheumatism, and many complaints, and he wants chemists to take up the sale of it.

Messrs. Bewley & Draper, Limited, Dublin, send with this issue a coloured leaflet which shows the most celebrated living and dead authors singing a chorus in praise of Draper's ink. The back of the leaflet bears our own opinion of the ink, written some years ago, but we can still endorse it.



Messrs. C. F. Böhrringer & Sons, of Mannheim, Germany, he famous quinine makers, publish a list of the various pharmaceutical chemicals manufactured by them. These include all the chief alkaloids and many of the most modern artificial substances now so popular in the medical armoury.

Messrs. Bowers Brothers, of 89 Blackfriars Road, submit a specimen of their ability as chemists' printers, and on one side of their circular they give an amusing history with an important moral.

Messrs. Bracher & Co., of Wincanton, describe and illustrate in their supplementary sheet their Desideratum Mixer and their automatic distilling apparatus, and publish testimonials in reference to these.

Mr. James Burrough, of the Cale Street Distillery, S.W., announces his specially pure spirits of wine and methylated spirits, and also gives quotations for orange, sherry, port, and other wines, as well as for whiskeys and rums.

Messrs. Burroughs, Wellcome & Co. reproduce two photographs, showing groups of their numerous manufactures and the articles for which they are agents, indicating the style in which they are put up, reduced to one-tenth of the original size. Under the headings "Progressive Pharmacy" and "Healthful and Delightful Toilet Requisites," they give descriptions of these specialities. In another part of this journal will be found a general price-list of the goods sold by this firm.

From Messrs. Cresswell Brothers, of Red Lion Square, the famous sponge dealers, we have a full and well illustrated price-list of all sorts of sponges. Besides prices, this circular gives a great deal of information respecting sponges with details of the natural and commercial history of the article. Several of the engravings in this list are produced by a new process, and the list itself is, we believe, the most complete and contains more information than any which has been previously issued by any sponge house. Sponges are said to be now cheaper on the market than ever before, and Messrs. Cresswell Brothers assure us that they give the trade the full benefit of the lower prices.

Mr. Henry Dunsford, wholesale druggist, of Manesty Lane, Liverpool, names several leading articles in which he deals, and also calls attention to Blackburn's Infants' Food-Warner, a promising novelty, which we notice in another column.

Messrs. Goodall, Backhouse & Co., whose operations we describe in some detail in an article in this issue, give particulars in a circular of some of their leading specialities.

The Hardy Patent Pick Company (Limited), of Sheffield, give some useful and interesting particulars of the working capabilities of the "Devil" disintegrator, which we described some weeks ago. The power of this grinding machine appears to be marvellous, and its suitability for pharmaceutical work is attested by good authority.

Messrs. Ingram & Royle enforce in a telling way the importance of the trade being kept posted in the style in which popular articles are put up. Their circular contains particulars of natural Carlsbad Sprudel salts, and Æsculap and Vichy waters.

The Kangra Valley Indian Tea Growers' Association, of 14 St. Dunstan's Hill, quote for the several varieties of these richly flavoured teas which they supply, and which, as we have before said, are quite worth the attention of chemists who add tea to their stock.

Messrs. Frederick King & Co., Limited, of 26 Waring Street, Belfast, and 3 to 6 Camomile Street, London, publish details in English and French of their Edwards's Desiccated Soup, an article of growing popularity, and very convenient for use in the kitchen.

Some time ago we called attention to Lee's triplex feeding-bottle brush. The manner of using this is shown in an illustrated circular to which the name of Messrs. S. Maw, Son & Thompson, as wholesale agents, is appended. The brush sells well wherever it is introduced, thus showing that it is appreciated.

We are favoured with a supplement from the Liebig's Extract of Meat Company, who already sell eight million jars of their product annually, and are still advancing the boundaries of their business.

Messrs. Donald Macpherson & Co. submit particulars of their Foo-Chow enamel, an article quite worth taking up. It is sold in various sized tins and in sixty-one different colours. It is very easily applied to wooden, metallic, stone, brick, or earthenware surfaces, and yields a brilliant colour, drying in a few minutes.

PASTA MACK.—The proprietors of this preparation again draw the attention of chemists to it. They inform us that their announcement in our January issue produced a good deal of business. There is no doubt that the article they have introduced has acquired quite an affectionate favour among ladies of the upper classes.

Messrs. Newball & Mason, of Nottingham, give on their circular a drawing of the immense vacuum-pan in which they make their Extract of Herbs, and various extracts for non-intoxicating beverages. In this they are able to evaporate 30 to 40 gallons per hour at a temperature under 100° Fabr. They announce an enlarged size bottle for their 6d. extract of herbs. We are asked to mention that the statement that their trade-mark registration was made "Sec. 15, 1879" is a printer's error. It should be "Oct. 15, 1879."

Price's specialities are the subject of an artistic circular, to which Price's Patent Candle Company, Limited, call the attention of the drug trade. On another page we speak more fully of the manufactures of this company, and we need call attention here only to their toilet soaps. There is no pharmacy, we presume, which does not have its Price's glycerine.

Mr. F. H. Prosser, Birmingham, offers a commodity which chemists are frequently asked for, viz. a corrective for sour and flat beer, which is euphoniously named "Altaacid"; and tender feet are catered for by "Hutton's Absorbent Foot-powder," the proprietors of which are Messrs. Tylee & Co., Bath.

Messrs. J. Raphael & Co., opticians, Oxford Street, W., a firm well known to chemists, give in their circular particulars of the departments which they specially cultivate, and offer good terms to chemists who adopt the profitable and satisfactory spectacle business. The place where a patient gets eye-drops and the like seems to us the place to get other artificial assistance for the eyesight.

Messrs. Seabury & Johnson, of New York and London, publish an important announcement concerning their future arrangements for European business, and on the back they give a condensed list of the goods they produce. Elsewhere will be found a trade note respecting their new arrangements.

We have an interesting circular inserted on behalf of Messrs. Sozio & Andrioli, of Grasse, giving a report of the quality and position of the present year's supply of the essential oils distilled at Grasse. Mr. Frederick Boehm, of 27 Billiter Square Buildings, is agent for this firm.

Mr. H. Trommsdorff, the eminent manufacturing chemist, of Erfurt, gives full particulars with clinical reports of "Soziodol," the odourless substitute for iodoform. Samples of and quotations for this important article may be obtained from Mr. Trommsdorff's agent, Mr. F. Boehm, 27 Billiter Square Buildings, E.C.

Messrs. Yardley & Co. bring before the trade, in elegant form, particulars of the several kinds of toilet-soaps made by them, and they recommend their transparent soap by a clever Shakespearean acrostic.

PATENT MEDICINES IN AMERICA.—In the State of New York there are 108 manufactories of patent medicines, employing capital amounting to \$3,513,430, and putting out annually medicines valued at \$4,339,178. In the whole United States there are 563 manufactories of these goods, with a capital of \$10,620,880, and an annual production valued at \$14,682,492.

ALPHA-NAPHTHOL.—According to Maximovitch, alpha-naphthol in the proportion of 0.01 to 0.04 per cent. prevents the development of microbes. It has only one-third the poisonous action of beta-naphthol, and one seven-hundredth of that of mercuric iodide. It is therefore superior to beta-naphthol by reason of its greater antiseptic properties and its feeble toxic action.



TRADE **"SANITAS"** MARK.

# DISINFECTANTS

(FLUIDS, POWDER, SOAPS),  
NON-POISONOUS, PLEASANT, AND BEST.  
Gold Medals, Calcutta 1883-84, Paris 1885, Antwerp 1886.

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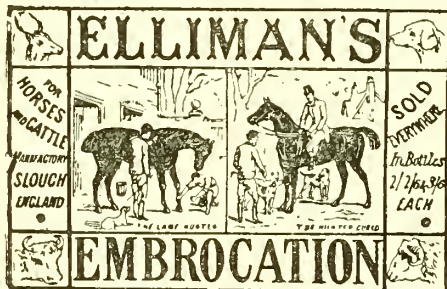
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### CONSERVATISM IN PHARMACY.

OUR thoughtful correspondent "Heder" last week touched gently the not unfamiliar characteristic of some pharmacists which, whether used complementarily or otherwise, is most easily understood as "conservatism." "Heder" thinks there remains in the retail drug trade too much of that sentiment which lives in the past, and will not tackle the living problems of to-day. He admits afterwards that in journeying through England he finds chemists all along his route waking



to the necessities of the hour, meeting competition with vigor and intelligence, and adapting themselves to their new environment with as much grace as can be expected. But in our correspondence, and elsewhere, he finds that chemists still sigh for the good old days of long prices, fictitious values and monopolies—beautiful things from certain points of view, but gone as hopelessly as last winter's snows. And "Heder's" object seems to be to urge his confrères to substitute spirited action for fruitless repining. In this we partially agree with him.

This week another correspondent, "Mercurius," a gentleman of wide pharmaceutical experience, strikes vigorously at the nail which "Heder" had inserted into the coffin of conservatism. "Mercurius" unfortunately confuses pharmaceutical with general political conservatism. In the former it is hardly correct to say that it is the "have got's" who are sighing for the good old days. It may be true that they do not eagerly live up to the latest ideas, but they are fairly satisfied with things as they are, and they are not the grumblers as a rule. There is a French proverb to the effect that the dog in the kitchen does not bark for his supper: it is the dog who is not in the kitchen who does that.

But "Mercurius" puts forward some useful hints. His point is that the modern chemist must be suited to the modern doctor, to the modern public. Their wants are quite different from those which the doctor and the public of forty years ago experienced, and they soon find out the man who can satisfy them. It is such men who are destined to succeed in this new and more competitive era. The conservatism which will supply only Epsom salts and castor oil when the public wisely or unwisely want to try the newer remedies is sure to be fatal to business success.

"The just demands of the trade," of which we are now hearing something in our correspondence department, may be in themselves an outcome of conservatism or its reverse. We do not at present propose to comment on these demands individually. It has become perfectly clear that there is but little chance of united action in regard to any of them, for the simple reason that there is scarcely any united opinion concerning them. "Heder" himself, however, after a pointed criticism of the suggestions of others this week, drops back somewhat surprisingly into what must evidently be a native soil of conservatism, when he winds up by declaring the Pharmaceutical Society to be "our natural and *de facto* leader." If that is so, there is no hope at all for the trade, unless, indeed, a new spirit can be infused into the Council of that body. There are some just demands of the trade which everybody admits. The ground was cleared for these eight years ago by a costly law suit, and nothing, absolutely nothing, has been done since towards attaining them. We are inclined to think that it is unjust to conservatism to describe by that term the hopeful confidence which still looks to the Pharmaceutical Council for any action likely to be of service to the trade generally.

## THE DRUG TRADE OF GREAT BRITAIN.

CONSIDERING the number and variety of articles comprised in the drug business, it will probably be a surprise to many people to hear that the whole of our foreign trade in drugs proper, including all crude drugs, quicksilver, opium, cinchona, gum arabic, liquorice, wax, and essential oils, and all pharmaceutical preparations, embraces scarcely 1 per cent. of the total volume of the nation's trade; while, even if to this inner circle we add the more or less connected branches of trade, such as drysalteries, heavy chemicals, spices, dye-stuffs, and fixed oils, the total only amounts to 5 per cent. of

our entire imports, and  $4\frac{1}{2}$  per cent. of our exports. This fact, however, rather shows the vastness of the whole of our foreign trade than the smallness of our drug business, for it is practically certain that no other country in the world has so large a drug trade as our own. The United States, probably, would rank next to ourselves, but even they are a good way behind this country. The statistics which we publish in another part of this issue throw an interesting light on the fluctuations of our shipments of purely pharmaceutical articles and chemicals to our principal foreign and colonial customers. These statistics are collected from official sources; and, though necessarily incomplete (for the Custom House authorities are somewhat too fond of grouping vast quantities of goods under the denomination of "miscellaneous articles"), they give the best available survey of this branch of business. It should be mentioned that the figures in Table A refer purely to pharmaceutical preparations of British manufacture exported by us. The re-shipments of crude drugs and of foreign-made preparations are given in Table B, but these, again, do not include opium, cinchona, or quicksilver. Tables C and D comprise the exports and re-exports of pharmaceutical chemicals and of chemical preparations used in the arts and manufactures, but do not include alkali or bleaching materials. The figures in many instances afford additional evidence of the tendency of our export trade to develop in an extra-European direction rather than with Continental countries. At the same time it is a fact worth recording that last year our exports of drugs and pharmaceutical preparations to Germany suddenly increased to about double the average, while France also bought more than 20 per cent. above her average share. But whether this sudden expansion of trade is ephemeral or due to such causes as, for instance, the growing popularity of British patent medicines on the Continent, remains a moot point. With the countries of Southern Europe, Portugal, Spain, Italy, and Turkey, business in pharmaceutical articles has been rather below the quinquennial average, but an explanation of this may perhaps be found in the fact that in 1887 these countries were comparatively free from epidemics, which in the preceding seasons may have caused an abnormal demand for medicines. Our exports to China, and still more to Japan, have been very satisfactory, those to the latter country, indeed, show quite an extraordinary increase, all the more gratifying because the reports of our representatives in Japan have lately been exceptionally gloomy in tenour, and some of our consuls have even gone the length of specifically mentioning the drug trade as an example of our incapacity to compete with the Germans. In previous issues of this Journal we have called attention to the evident exaggeration of these complaints, by quoting from the reports of foreign consuls in Japan, and now our own Customs statistics prove beyond doubt that we are gaining ground in Japan very rapidly, our shipments of British-made pharmaceutical and chemical articles in 1887 being respectively 38, 120, 105 and 160 per cent. larger than in the four preceding years. Our exports of pharmaceutical preparations to the United States, which had fallen very low in 1886, have considerably improved in 1887. What amount of the same class of goods we receive from that country in return is not indicated in the Customs statistics, but the very fact that no separate entry has been made under this head seems to show that our imports of American-made medicines cannot be by any means so large as some alarmists would have us believe. Our exports of pharmaceutical preparations to Spanish America are progressing very steadily, the increase last year, as compared with the previous five years' average, being: Colombia, 45 per cent.; Uruguay, 30 per cent.; Mexico, 25 per cent.; Spanish West Indies, 20 per cent.; Argentine Republic, 15 per cent.; Central America, 15 per cent.;



Brazil, 5 per cent.; and Chili, 5 per cent. The exports to Peru were 15 per cent. below the average, but they are not very important in any case, and the perennially unsettled state of the country renders business there peculiarly liable to violent fluctuations.

With British colonies and dependencies our trade in pharmaceutical preparations during the year 1887 has not been equally satisfactory, but at the same time, strange to say, our shipments of chemical preparations to those countries have increased more than sufficiently to cover the loss on the exports in the allied branch. To British India our shipments of British-made pharmaceutical preparations were 10 per cent. below the average since 1883, while crude drugs and foreign preparations increased by 30 per cent., though it would be erroneous to assume that these figures prove beyond doubt that our continental rivals are taking Indian custom away from us. Our exports of British-made chemical preparations to British India were 23 per cent. above the average, and Ceylon bought 8 per cent. more medicines from us than her average. South African business has been decidedly brisk last year, both as regards pharmaceutical and chemical exports. The enormous advance in the shipments of chemicals to South Africa is probably accounted for by the development of copper and gold mining in that country, and the consequent increased demand for chemicals used in the treatment of ore. Of pharmaceutical preparations the Cape Colony bought 10 per cent., and Natal 25 per cent. above the average. The value of the shipments of medicines to Australia sank below par last year, with the exception of Victoria, which bought 5 per cent. above the average; but Western Australia received 3 per cent., New Zealand 5 per cent., New South Wales 10 per cent., Tasmania 15 per cent., South Australia 20 per cent., and Queensland 28 per cent. below the average. It must be remembered, however, that the figures are given only in values, and that the average price of drugs and medicines generally was lower in 1887 than in any previous year.

Our receipts of customs duties are very large, considering that we are the most free-trading nation in the world, but then our system is to tax very highly indeed the few classes of goods upon which we do levy duty. Last year's customs receipts, though comparatively small, were still 19,861,754*l.*, and nearly 5,500,000*l.* of this amount is derived from taxes which must be swept away whenever the vision of a "free breakfast table" is realised. From tobacco we received about 9,000,000*l.*, while wines and spirits yielded about 5,500,000*l.* in customs duties. Among the duty-liable articles are several of pharmaceutical interest, but only a few which yield a sufficiently large return to make it worth collecting. One is perfumed alcoholic spirits, of which we received 49,686 gallons, worth 84,748*l.*, and on which 26,442*l.* was collected. 31,126 gallons (the bulk of this probably representing eau de Cologne) of perfumed spirits were imported from Germany *via* Holland. France contributed 15,950 gallons of perfumed spirits, and the Channel Islands, where there is a rather important trade in Jersey eau de Cologne, 1,130 gallons. Altogether 32,059 gallons of perfumed spirits were cleared for home consumption during the year. Another important dutiable article is spirituous transparent soap, of which we received 29,408 lbs. *via* Holland, but probably of German manufacture, while Austria sent us 5,040 lbs., and other countries 3,612 lbs., the whole yielding 2,008*l.* duty. Chloral hydrate, nearly all of German make, is represented by 20,262 lbs., paying 4,602*l.* duty, chloroform (also German) by 2,688 lbs., on which 275*l.* duty was paid. Then there were 4,796 gallons of sulphuric ether (duty 1,113*l.*), 570 lbs. of acetic ether (duty 29*l.*), 511 gallons of collodion (duty 171*l.*), and 1 gallon ethyl iodide, all from Germany. The duty on iodide of ethyl is 13*s.* per gallon, yet on this particular gallon 40*s.*

duty was paid—why is not quite clear. There are no less than 110 ports in the United Kingdom at which dutiable articles were cleared by the Customs officers last year, and of these 76 are to be found in England and Wales alone. Up to 1884 there were many more, but some of the smaller ones have since been amalgamated or joined to more important centres, though it would seem that the list might be further reduced with advantage; for while at London 10,396,778*l.*, and at Liverpool 2,643,168*l.*, was collected, the receipts at Kirkcaldy were only 9*l.*; at Stornoway, 2*l.*; and at Banff, 1*l.*; while at Bandon, in Ireland, nothing whatever has been received for the last three years. The imports of free and dutiable goods into the United Kingdom, representing in 1887 a value of 362,227,564*l.*, are distributed over 116 ports, some of these, such as Newhaven, Queenborough, Harwich, Fleetwood, Stranraer, &c., being practically only suckers, through which the goods received pass at once into the business centres. The two most important ports in the United Kingdom are, of course, London with 129,430,751*l.*, and Liverpool with 92,490,112*l.*, imports. Then follow Hull (19,922,649*l.*), Harwich (12,574,665*l.*), Glasgow (11,364,347*l.*), and Newhaven (9,789,611*l.*). Besides these six, there are 19 other ports in the United Kingdom at which over 1,000,000*l.* worth of goods is annually received from abroad. In 1883 the proportion of the imports into London and its tributaries to that of the whole of the kingdom was 41½ per cent.; in 1887 it was 43½ per cent., the share of Liverpool declining during the same period from 27 per cent. to 25½ per cent. It may also be pointed out that, while in 1883 the imports of the kingdom were distributed in the proportion of 89 per cent. for England and Wales, 8¾ per cent. for Scotland, and 2½ per cent. for Ireland, the relative figures in 1887 were 90 per cent., 8 per cent., and 2 per cent. It would be highly interesting if it could be ascertained whether this increase in the proportional trade of England, and especially of London, is due merely to the fact that other parts of the country have suffered more from the general depression in trade, or whether there really exists a strong tendency for concentration of the trade of the country towards the metropolis.

#### WEIGHTS AND MEASURES BILL.

It requires some courage to speak of the prospects of any Bill introduced at this stage of the present session of Parliament. There is, indeed, little prospect of the enactment of any measures but those of the first importance, and we take it that the Weights and Measures Bill which has been introduced into the House of Commons by Sir M. Hicks-Beach and Baron Henry de Worms, is at the present stage a merely formal endeavour to amend the Weights and Measures Act of 1878. The Bill, being a Government measure, may be pushed on this session, but it is more probable that it will lie dormant until next year. As it stands, the Bill is divided into four parts: Part I. relating to weights and measures; Part II. to the sale of coal; Part III. to the sale of bread, and Part IV. is supplementary. The 1st section of the Bill is an extension of the powers given in the 29th section of the principal statute. Under that section it was provided that "every measure and weight whatsoever used for trade shall be verified and stamped by an inspector;" the Bill extends that requirement to "every weighing instrument used for trade," and the supplemental part (section 32) defines "weighing instrument" as "scales, with the weights belonging thereto, balances, steelyards, weighing-machines, and other instruments for weighing." The penalty for possession of unstamped weighing instruments is put down at a maximum of 2*l.* for the first, and 5*l.* for the second, offence, and



Section 3 provides for the forfeiture of the unstamped instruments as in the case of weights and measures. Section 32 of the principal Act which relates to forged stamps, will also apply to weighing instruments. It will thus be seen that if the Bill is passed, all counter and dispensing scales, and every kind of balance used for trade will have to be stamped as well as the weights. Section 2 enables the Board of Trade to supply local inspectors with copies of the metric standards, so that any metric weights or measures used in other than trade purposes may be verified locally instead of by the Board as hitherto. The fine for a second offence for the possession of false or unjust weights, measures, or weighing instruments is raised by section 3 from 10*l.* to 20*l.* The Bill repeals section 16 of the principal Act, defining the form of measures, of capacity (bushel, peck, &c.), for such goods as were in old times sold by heaped measure. It also repeals the clause of the principal Act permitting exemptions in reference to vessels not represented as containing any amount of imperial measure. We pointed out in "Pharmacologia," page 269, that under section 22 of the principal Act, tinctures and like commodities may be sold by the Winchester, butter by the firkin, wine by the bottle or glass, &c. The Bill repeals this section, so that it would seem that everything sold will have to be sold according to some denomination of the imperial standards. Section 46, which gives power to stamp measures made partly of metal and partly of glass, is also repealed.

Section 5 of the Bill empowers the Board of Trade to prepare new denominations of standards for the measurement of electricity, temperature, pressure, or gravities, as appear to be required in trade. Section 6 enables local authorities to provide for the use of their officers working standards, verified by the Board of Trade. Section 7 enables the Board to take fees for the comparing and verification of weights and measures, not being local standards or coin weights, and for testing weighing or measuring instruments. Local authorities are to have powers, under section 8, to make regulations for the verification, stamping, and inspection of weights, measures, and weighing instruments, and if they do not do this the Board of Trade is to have the power to do so for them. Section 9 declares that makers of or dealers in weights and scales may not be inspectors of weights and measures; and the next section fixes the fees for verification and stamping, which are to range from  $\frac{1}{2}$ *d.* to 4*d.* for weights, and from  $\frac{1}{4}$ *d.* to 6*d.* for measures. The fee for testing balances is to range from 2*d.* to 6*d.*, and from 2*s.* to 10*s.* for weighingbridges and fixed weighing machines. The remaining sections of the first part of the Bill refer to the appointment of inspectors in Ireland, and the other parts have already been referred to. Should the Bill pass this session, it will come into operation on January 1, 1889.

## MATERIA MEDICA NOTES.

**Fiji Tea.** SEVERAL weeks ago the first commercial consignment of tea from the colony of Fiji was received in Mincing Lane, and was pronounced by experts to be good, the infusion having a good body and fair aroma. We were fortunate in receiving a small sample of this importation, and, as the cultivation of tea promises to be one of the most remunerative enterprises in our colonies and India, a few remarks on tea generally will not be out of place at present. We had the satisfaction of reporting on July 14 that the imports of Indian tea into the United Kingdom now exceed those of China tea. Five and twenty years ago we were almost solely dependent upon China and Japan for our tea supply; India sent us only about 2,500,000 lbs. a year, and this was the result of over thirty years' hard and honest

work in the propagation of the plant and experimentation in the cure of the leaf. Although the tea plant is a native of Assam, and was discovered there about 1820, the first experiments were made with plants received from China, and, later, attention was paid to the Assam plant, one result being the formation of a hybrid species, which has proved to be exceeding hardy. By the time of the Great Exhibition of 1851 Indian-grown tea was a reality, and by 1863 speculation had given it an impetus which has gradually grown in force; the value of the tea was recognised in our markets; it has assisted in reducing prices all round, and has created almost a new art of blending whereby China teas of low body are fashioned into really useful and appreciable articles. To India we may confidently look for our future supplies of "the cup that cheers," and, if China refuses to receive our Indian opium, it may be some consolation to Anglo-Indians to know that we have ceased to be enamoured of her tea. To Ceylon also we may with confidence look for future supplies. The cultivation of tea was commenced there fifteen years ago, and in 1875 the shipments amounted to two or three chests, but by 1886 nearly 4,500,000 lbs. were exported, and over 100,000 acres of ground were under cultivation. Ceylon tea is in some respects better than the Indian kind, resembling rather a blend of Indian and China teas, and for this reason mainly it has grown enormously in popular favour during the past few years, so much so, indeed, that agriculturists in the island may expect ere long to get over the disasters which their excessive production of cinchona has brought upon them. That extremely interesting country Johore, which recently attached itself to the rule of our queen, is trying what it can do in the cultivation of tea, and for many years Natal has used tea of her own growing, while Jamaica is also experimenting with some hope of success. For various reasons, the chief being the proximity of Fiji to Australasia, we regard the cultivation of tea in that island as being almost of equal importance to its cultivation in India. All the Australian colonies, including New Zealand and Tasmania, consume amongst them over 22,000,000 lbs. of tea annually, or about 7 lbs. per head of population, while in Great Britain we only consume 5 lbs. per head of population; this, however, being more than the whole continent of Europe put together. Australasia, it is apparent, is the natural outlet for Fiji tea, and when that is satisfied Fiji may tap the United States, which is exclusively supplied by China and Japan at present. Fiji is better situated to compete with these countries than either Ceylon or India. The industry is still young in the colony, having been started in 1880; but there are several thousands of acres planted with it, and the plant seems to thrive well. Labour is somewhat dearer than it is in Ceylon, but the quality of the tea is able to stand this, and there is a hope that as the colony develops Polynesians may go to it of their own accord, and so lessen the expense under this head. The samples of Fiji tea which were shown at the Colonial and Indian Exhibition were mostly of excellent quality, and the importation which has been received in London recently certainly equals it so far as the palate is concerned. Chemical analysis has not yet been able to determine the market value of tea, nevertheless we believe that some facts which an analysis of the sample submitted to us has revealed are not without interest. The amount of moisture contained in it was found to be 64 per cent.—a figure which compares well with the 7.10 to 12.66 per cent. found in the best Russian teas, which are typical of the China produce. Recently Messrs. Paul and Cownley examined twenty-eight samples of Ceylon tea, and found the moisture to vary from 3.6 to 7.56 per cent., with 2.4 to 4.66 per cent. of theine. The samples of Russian tea referred to contained from 1.36



to 3.09 per cent. of alkaloid, and our sample of Fiji tea yielded us 2.35 per cent. of beautiful theine. This alkaloid has long been regarded as the only alkaloidal constituent of tea, if we may except paraxanthine theobromine, but a recent research by Kossel has revealed the existence of a second base, to which he gives the name "theophylline," and regards it as an isomer of theobromine and paraxanthine. The crystalline body was found to have the formula  $C_7H_8N_4O_2 \cdot H_2O$ , the molecule of water being dispelled on exposure to a temperature of  $110^\circ C$ . The solubility of the new base in alcohol and water is similar to that of theobromine, and the form of the crystals accords with the form of paraxanthine. Theophylline melts at  $264^\circ C$ ., paraxanthine at  $280^\circ C$ ., and theobromine sublimes at  $290^\circ C$ . without melting. Kossel regards the new base as a xanthine derivative. Messrs. Paul and Cownley have announced since this discovery was made known that some months ago they obtained distinct evidence of the presence in tea of an alkaloid distinct from theine.

Sir Joseph D. Hooker has for some time been Star Anise. investigating the origin of the true star anise of China, and the result of his labours is embodied in a paper in the current issue of the *Botanical Magazine*. That *Illicium anisatum* yields Chinese star anise, and that *I. religiosum* yields Japanese star anise have been recognised as facts by pharmacognosists, but botanists regarded them as identical plants until Dr. Bretschneider called attention to the fact, amply confirmed by Dr. Eykman, that Japanese star anise is poisonous. Some true plants of Chinese star anise which were grown in the Hong-Kong Botanical Gardens turned out to be different from *I. anisatum*, and accordingly seedlings were sent to Kew, where they flowered in November of last year, and, as a result of his examination of that plant and comparison with other species of the genus, Sir J. D. Hooker now gives the true source of Chinese star anise as *Illicium anisatum*. The new plant differs from other species principally in having flowers with a smaller number of perianth-segments, stamens, and carpels. From *I. anisatum* it appears to differ more than other species, and the differences are not only apparent in the flower, but an examination of the foliage and fruit by Mr. Holmes showed that the taste of *I. verum* was quite distinct from that of all others, although the species were not otherwise distinguishable. It is apparent, therefore, that henceforth the star anise of the British Pharmacopoeia is to be regarded as the fruit of *Illicium verum*, Hk. f., while *I. anisatum*, Loureiro, is to be retained as the source of Japanese star anise, the name *I. religiosum*, Siebold and Zuccarini, hitherto given to that plant, dropping out of existence. This will be confusing at first, but pharmacists will doubtless get accustomed in time to recognise that poisonous star anise is the fruit of *Illicium anisatum*.

Coto Bark. The arrival of a parcel of true coto bark in London, briefly referred to in our Trade Report of July 14, is worthy of more than passing notice. This bark, about ten years ago promised to have a long future before it, especially as a specific for Asiatic cholera; but when that pestilential disease ravaged Egypt and Southern Europe coto was found to be wanting. Some were of opinion that the failure of the drug was due to the fact that it was not the real article which was used, but a substitute—paracoto bark—so like it and so much more plentiful in Bolivia that it alone has for some years been exported, and the true coto has latterly become a museum curiosity. The source of coto bark is not definitely known; in Brazil there is a bark known as coto coto, which Martius refers to *Palicourea densiflora*; but whether this is the same or not has not been settled. We might suggest that search should be

made in the unique collection of drugs formed by Martius now in the possession of the Royal College of Physicians at Edinburgh, and if it is found a comparison would show whether the bark now known as coto is identical or not with that of *Palicourea densiflora*. The bark is in large pieces more than half an inch in thickness, the colour being reddish brown, the odour distinctly like cinnamon, and the taste pungent. Messrs. Jobst and Hesse, who pointed out the difference of paracoto bark, state that that bark has much the same colour, but the odour is more like nutmegs and the taste less pungent. From the true bark these chemists obtained a principle, cotoin,  $C_{22}H_{18}O_6$ , which occurs as a pale yellowish crystalline powder, possessed of a bitter taste and irritating to the nostrils. It has been stated that no drug equals this in the treatment of diarrhoea of all kinds, especially that of phthisis, it being given in doses of  $\frac{1}{2}$  grain to 2 grains. The bark also contains an anhydride of this principle, dicotoin,  $C_{41}H_{34}O_{11}$ . Paracoto bark has the same therapeutic properties as Coto bark, but is much less active. It contains a number of principles, the more important of which are paracotoin,  $C_{15}H_{12}O_6$ , and leucotoin,  $C_{24}H_{32}O_{10}$ , the latter in greater abundance; but paracotoin is more important therapeutically, and was used with some success in the treatment of Asiatic cholera in Japan, being used for this purpose as a hypodermic injection (1 grain to 2 grains). It signally failed, however, in Egypt.

#### BRITISH MEDICAL ASSOCIATION.

THE approaching meeting of the British Medical Association in Glasgow promises to be one of exceptional interest, as the local committee have made some special arrangements for the entertainment of the visitors, while the programme of papers is rich and full of subjects of great practical importance, as well as of those which are calculated to produce discussion. The meeting, as hitherto stated, will begin on Tuesday, August 7, at 11.30 A.M., in the Bute Hall of the University, and in the afternoon of that day, at 4 P.M., Principal John Caird, one of the most eminent of living theologians, will preach a sermon to the members at a service in the cathedral. In the evening a presidential address will be given by Professor W. T. Gairdner, and next day the sectional meetings, which constitute the work proper of the association, will begin. There are altogether a dozen sections, K being that devoted to pharmacology and therapeutics. This section will meet in the Conveyancing class-room of the University, under the presidency of Dr. James Morton. The following are the subjects of the papers which will be read:—"The Pine Treatment," by James Davidson, M.D.; (1) "On the Therapeutic Value of Alcohol," (2) "The so-called Abortive Treatment of Syphilis," by C. R. Drysdale, M.D.; "Scabies and its Treatment," by J. Brindley James, Esq.; "Thermal Treatment after Acute Rheumatism, with a Short Outline of the System pursued at Bath," by J. G. Douglas Kerr, M.B.; "Three Cases of Poisoning," by A. D. Macdonald, M.D.; "The Want of Uniformity in Strength of Medicinal Substances," by R. B. Macpherson, M.D.; "The Treatment of Eczema," by T. F. Pearce, M.D.; "An Investigation of the Action of  $\beta$  Naphthol," by John V. Shoemaker, M.D., Philadelphia; "The Coca Alkaloids," by R. Stockman, M.D., Edinburgh. In addition to these papers, a discussion will be opened by Professor Theodore Cash, F.R.S., on carbolic acid, antipyrin, antifebrin, and their allies, especially as regards their antipyretic, analgesic, and antiseptic actions; Dr. W. Allan Jamieson, Edinburgh, will show two cases of *Xeroderma pigmentosum*; and it is expected that Professors Liebreich and Dujardin-Beaumez will be present at the meeting, and that the latter will contribute a paper on "Phenacetin."



For other sections papers have been promised which will be of special interest to chemists. In the medicine section Professor Haycraft and Dr. R. T. Williamson will demonstrate a clinical method for quantitatively determining the alkalinity of the blood; Dr. Orlando Jones will describe a new remedy for some forms of heart disease; and Dr. Arthur P. Luff will discourse on the ptomaines and their relation to disease. A discussion will be initiated by Dr. George Fleming, chief of the veterinary department of the army, on that most important subject, "The communicable diseases common to man and animals, and their relationship." This discussion will take place in the section of public medicine. The annual museum will be held while the meetings are going on. The specimens will be shown in the examination hall, the Hebrew class-room, and the chemistry tutorial class-room.

The Official Report from the Select Committee of the House of Lords on the Pharmacy Act Ireland (1875) Amendment Bill, together with the Proceedings of the Committee and Minutes of Evidence, has been issued this week. It occupies 74 pages, and is sold at 10½d., the book postage being 2d. It can be obtained from Eyre & Spottiswoode, East Harding Street, London; from A. & C. Black, North Bridge, Edinburgh; or from Hodges, Figgins & Co., 104 Grafton Street, Dublin.

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The Chemical Section of the London Chamber of Commerce held a special meeting on Wednesday, to consider representations from the Government officials in reference to the drawback to be allowed on spirituous tinctures and such preparations when exported. The discussion was quite a private one, but we believe the section and the Government are now very near an agreement.

\* \*

Mr. Barrett (Messrs. A. & F. Pears) says the statement in regard to the advertising carried on by his firm which we quoted last week from *Truth*, is not quite accurate. Messrs. Pears are now spending over 100,000l. a year in advertising, but it is not divided as *Truth* estimated. No money is spent on the Continent at all, the English-speaking race being as yet sufficient to satisfy even Messrs. Pears. Their 101,000l. a year or thereabouts is divided about as follows: 70,000l. in the United Kingdom; 25,000l. in America; 5,000l. in Australia; and 1,000l. or more in India and other British possessions.

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Tunisian Olive Oil. Olive oil is the most important of Tunisian exports. In 1887 the exports amounted to 5,561 tons, and in 1886 to 7,370 tons. The number of olive trees has been estimated at 3,000,000 in the northern parts of the country, 3,200,000 in the plains stretching inland from Susa, and 570,000 in the district of Sfax. Those in the north are much less productive than those further south, and this circumstance, coupled with the oppressive taxation to which they are subjected, induces the proprietors to cut them down as firewood, most of the wood consumed in Tunis being olive. The oil is of superior quality, and efforts have recently been made still further to purify it by erecting two large steam mills at Susa, where the most approved methods of treating the olive berry are employed. One of these mills is also fitted with machinery for crushing the olive stones and extracting the oil by means of bisulphide of carbon. So says Her Majesty's consul, from whose report we take this information. But the various onerous duties which are levied on this staple production, from the time it is gathered from the tree till the oil is delivered at Marseilles, amount to more than 40 per cent. of its value, and prevent proprietors from extending their plantations. Susa, one of the principal ports, near which the olive tree is cultivated, used formerly to export largely of this produce to the United Kingdom, but the total quantity exported thence to that market last year amounted to only 200 tuns, against 2,600 tuns to France and Italy, besides 500 tuns of inferior oil extracted from the kernel.

Jamaica Cinchona. The director of the Jamaica Botanical Gardens, in his report for the year 1887, mentions that the shipments of cinchona bark from the Government plantation during that year amounted to 17,009 lbs.; realising 542l. 9s. at the London auctions, which gives an average of 7·65d. per lb. The price varied, of course, considerably according to quality. The director also calls attention to the high rates charged for freight on cinchona bark sent from Jamaica to London, and contrasts the rate from Ceylon, which is 2s. 8½d. per 100 lbs. as against 8s. 9½d. from Jamaica. This point, he thinks, deserves the serious attention of cinchona-growers in Jamaica, who in these days of keen competition in the sea-carrying trade might be able to make better terms. An increase of nearly 10 per cent. in the proceeds of their bark would certainly tend to make the Jamaican planters more eager to take up cinchona cultivation than they have hitherto shown themselves.

#### FINANCIAL.

THE SANITAS COMPANY (LIMITED).—The directors of this company have declared an interim dividend at the rate of 10 per cent. per annum for the six months ended June 30 last, payable on and after September 1 next.

HENRY LAMPLOUGH (LIMITED).—The third annual general meeting of the shareholders in this company was held at the First Avenue Hotel on Friday last. Mr. Lamplough at first took the chair, but as he was recovering from an illness he asked permission of the meeting to resign that position in favour of Mr. Wm. Hays, another director. The directors' report stated that a net profit of 3,662l. 4s. 7d. had resulted from the year's trading; but the report further showed that the company were creditors of Mr. Alexander Brown, a Lombard Street banker, who had failed to the amount of 6,563l. 8s. 8d. on deposit, and 2,193l. 19s. 3d. on current account. The first sum had been borrowed, on Mr. Brown's suggestion, on the freehold property belonging to the company, but Mr. Lamplough has given his promissory note to the company for that sum, and has given 7,500l. worth of his fully paid-up shares as security, and had also assigned to the company any dividend accruing to him on Brown's estate. The chairman said he had no doubt Mr. Brown had joined this and other boards for the sole purpose of putting money in his bank. He did not expect Brown's estate would realise 1s. in the pound. He (the chairman) believed the company could still earn 10 per cent. dividends; but they must pay off the loan next month, and that necessitated a call on the shareholders of 10s. per share. On discussion it did not appear to be fully explained where the money raised on loan had gone or who was responsible; it was therefore unanimously agreed to appoint a committee of investigation, authorised to investigate the affairs of the company *ab initio*. The following gentlemen were appointed to serve on the committee:—Captain Wilson, Messrs. S. Gorer, Salaman, Thompson, and R. E. Ashton; and the meeting was adjourned. The shares in this company (2l. 10s. paid) are quoted at 1l. to 1l. 10s., for negotiation only; that is if buyer and seller can be brought together. The new call of 10s. is made for August 1.

AMONG the specially prosperous companies in the trade may be mentioned Brunner, Mond & Co., the great alkali makers, whose 10l. shares are now quoted at 29l. to 31l.; the Liebig's Extract of Meat Company, whose 20l. shares are now 56l. to 58l.; Bryant & May, 5l. paid, worth 13l.; Price's Patent Candle Company, 16l. paid, last sold at 20l.; and Spratt's Patent, 5l. shares quoted 8l. 10s. to 9l.

THE LONDON PRODUCE CLEARING HOUSE has been somewhat declining in favour during the past few weeks. The shares (2l. 10s. paid), which sold at 6l. soon after the organisation of the company, are last quoted at 3l. 5s. to 3l. 15s.

The following quotations may also be added:—Lawes's Chemical Manure Company: Ordinary shares (9l. paid) 6l. 10s. to 7l.; preference (10l. paid) 11l. to 12l. Aylesbury Dairy Company (1l. paid) 10s. to 15s. Barrett's Brewery and Bottling Company (5l. paid) 4l. 7s. 6d. to 4l. 12s. 6d. Hop Bitters Company's 1l. paid shares are quoted at 2s. 6d. to 7s. 6d. Shareholders are complaining in the *Financial News* of the absence of an interim dividend, or of any information concerning the company's affairs.



## WILLS OF DECEASED CHEMISTS.

The will (dated August 8, 1885) of Mr. Thompson Allen, late of Boston, retired chemist and druggist, who died on January 11 last, was proved at Lincoln on February 17 by his widow and sole executrix, Elizabeth Anne Allen, to whom he leaves all his property, both real and personal, for her absolute use. The gross personal estate amounted to 11,850*l.* 7*s.* 7*d.*

The will (dated September 8, 1880) of the late Mr. Matthew Auty, chemist and druggist, of the Bottoms, Morley, Yorkshire, who died on March 24 last, was proved at Wakefield, on June 2, by the executors, Messrs. John Garnett, of Morley, grocer, and William S. Rhodes, of Morley, gentleman, whom the testator also appoints as trustees. The gross value of the personalty amounted to 11,376*l.* 10*s.* 6*d.*, and the net value to 11,236*l.* 7*s.* 11*d.* The testator devises all his real and personal estate in trust to his executors, and directs them to sell the shop, with stock, goodwill, &c., the proceeds to be invested. He further directs them to pay his wife 160*l.* per annum during widowhood. The interest of the rest of the estate is to be divided (as they come of age or marry) among the testator's five daughters equally. Upon Mrs. Auty's death the real estate is to be sold and the proceeds, with the personalty, are to be divided equally among the daughters, except that 300*l.* shall be deducted from Mrs. H. M. Thackwray's share on account of an advance.

The will (dated March 4, 1874) with a codicil (dated June 4, 1875) of Mr. William Bleasdale, wholesale druggist, late of York, who died on January 25 last, was proved at York on March 1, the value of the personal estate amounting to 34,894*l.* 0*s.* 5*d.* The testator bequeaths 50*l.* each to his executors (Messrs. Richard Bartrum Tollinton and Francis Theakston Nursaw, wholesale druggists, of York) and after making provision for the payment of an annuity of 500*l.* to his widow, he leaves the whole of his property to be divided equally among his four children.

The will (dated February 14, 1887) of Mr. Francis Cupiss, late of Diss, Norfolk, chemist and druggist, who died January 11 last, was proved, at Norwich, on April 9, under 4,300*l.* personal estate, there being no leaseholds. The testator leaves to his widow the use of his residence, "The Wilderness," with its contents, also his interest in "Cupiss's Constitution and Cough Balls," and other proprietary articles, also the profits of the business and the income of his estate during her widowhood. On her re-marriage or death the property is to be equally divided between the testator's two sons and three daughters.

The will (dated November 1, 1887) of Mr. Robert Dickinson, chemist and druggist, late of 98 Broadway, Stratford, Essex, who died December 31, 1887, was proved in London on February 13 last by his widow, Mrs. Harriett Dickinson, and Mr. E. R. Dickinson, the executors. The testator directs his business to be sold, and bequeaths all his property, real and personal, to his wife during her life or widowhood. The gross value of the personal estate amounted to 1,012*l.* 10*s.* 2*d.*

The will (dated September 18, 1885) of Mr. John Ellis, chemist and printer, late of New Wortley, Yorkshire, who died December 27, 1887, was proved at Wakefield on April 7 last, by the widow, under 270*l.* 3*s.* 1*d.* gross value. The testator bequeaths all his property to his wife during life or widowhood, with remainder to his son on her death or remarriage.

The will (dated September 29, 1885) of Mr. Robert Fogg, late of Wigan, chemist and druggist, who died on March 2 last, was proved at Liverpool on March 14 by the relict (the sole executrix), to whom the testator bequeaths the whole of his property for her absolute use. The personal estate amounted to 277*l.*

The will (dated June 1, 1885) of Mr. Robert Glanvill, late of Hyde Road, Ardwick, Manchester, post office letter receiver and chemist and druggist, who died on January 14 last, was proved at Manchester, on March 27, by the widow, Mrs. Sarah Ann Glanvill, the sole executrix, to whom the testator bequeaths the whole of his property absolutely.

The gross personal estate amounted to 192*l.* 10*s.* and there are no leaseholds.

The will (dated January 13, 1887) of Mr. Leonard Lewis Hackman, pharmaceutical chemist, late of Portsea, Hants, who died December 31, 1887, was proved on January 13 last, in London, by his sons and executors, Messrs. Leonard King Havelock Hackman, physician, and Lawrence Bell Hackman, to whom he bequeaths all his freehold and other properties in equal shares, his house and shop at 325 Fratton Road being devised to Mr. L. B. Hackman. The gross value of the personal estate amounted to 709*l.* 16*s.* 2*d.*

The will (dated July 3, 1883) of Mr. Herbert Hayter, chemist, late of Wimborne Minster, Dorset, who died on February 14 last, was proved at Blandford, on May 10, under 1,500*l.*, by the widow (the sole executrix), to whom the testator bequeaths the whole of his estate absolutely.

The will (dated July 3, 1883) of the late Mr. Robert Mann, agent, of Cromwell Street, Newcastle-on-Tyne, who died on February 13 last was proved at Newcastle, on March 6, by Mr. Arthur Mann, the son and sole executor. The personalty was sworn under 1,188*l.*, and there are no leaseholds. The testator vests the whole of his property in his said son, as trustee, to be used for the benefit of his widow and children Walter and Clara.

The will (dated May 7, 1830) of Mr. Samuel William Mann, chemist and druggist, late of Norwich, who died December 16, 1887, was proved at Norwich on January 17 last, by Mr. Clement Mann, the brother and sole executor, under 150*l.* The testator appoints his said brother universal legatee.

The will (dated July 11, 1887) of Mr. John Oldham, late of Mansfield, Notts, chemist and druggist, who died on March 22 last, was proved at Nottingham on May 15. The gross personal estate amounted to 925*l.* 1*s.* 1*d.*, and the net amounted to 168*l.* 12*s.* 8*d.*, there being no leaseholds. The executors are Mr. Francis Haslam Oldham, son of the testator, and Mr. George Addington, to whom deceased leaves the whole of his property in trust for the benefit of his widow.

The will (dated March 25, 1885) of Mr. John Ormond, chemist and druggist, of Winter Hall, Pembrokehire, and late of Oulton Terrace, Pembroke, who died on January 16 last, was proved at Carmarthen on February 6. The gross personal estate amounted to 2,724*l.* 10*s.* 6*d.* The testator appoints his son Richard and Mr. Robert George trustees to realise his property, and divide it between his four sons and five daughters equally. He gives his son Richard (chemist) the option of purchasing the freehold shop and another shop in Main Street for 1,000*l.*, or of claiming a twenty-one years' lease at 30*l.* per annum of the shop occupied by him, provided he declares his choice within three months after the testator's death.

The will (dated September 2, 1887) of Mr. William Steward, late of Bridgnorth, who died on January 3 last, was proved at Shrewsbury on February 8 by the executors, Mrs. Elizabeth Steward, the widow, and Mr. Josiah Wm. Steward, the son. The estate in the United Kingdom was under 14,000*l.* The testator devises his freehold dwelling-house to his said son, and directs that the rest of his property shall be invested for twenty-one years, and that an annuity of 350*l.* shall be paid to his widow out of the interest, the surplus to accumulate for twenty-one years, or until the widow's death, and then to pass to his son.

The will (dated November 13, 1877) of the late Mr. John Tirrell, homœopathic chemist, Hanley, who died on December 29, 1887, was proved at Lichfield on February 7, 1888, the personalty being sworn at 1,791*l.* 7*s.* 3*d.* The testator left one-twelfth of his whole estate in trust for his daughter Sarah Anne, 10*l.* to each of his other children, and the remainder to his wife absolutely.

The will (dated February 19, 1869) of Mr. John Henry Waite, chemist, formerly of Scarborough, but late of Garforth, gentleman, who died February 19 last, was proved at Wakefield on May 3 by the testator's mother and sole executrix, Mrs. Mary Waite, to whom the deceased leaves the whole of his estate, the gross value of which amounted to 1,356*l.* 4*s.* 2*d.*, and the net value to 1,120*l.* 3*s.* 3*d.*





AND

## Literary Notes.

*Nature's Hygiene: A Systematic Manual of Natural Hygiene.* By C. T. Kingzett, F.I.C., F.C.S. Third edition. London: Baillière, Tindall & Cox. 1888. Crown 8vo. Pp. xii. + 439.

It is eight years since the first edition of Mr. Kingzett's treatise on hygiene was published, and since that time the theory which he advanced regarding natural disinfection has had room to develop, and it has developed. This theory, which really underlies the whole work, is that the factor which imparts health-giving properties to the atmosphere under certain conditions and in certain localities is not ozone, but peroxide of hydrogen. That there is, for example, in the vicinity of pine forests a constituent in the air which possesses vigorous oxidising power, there is no question, and that that constituent is generally supposed to be ozone is also free from doubt; but Mr. Kingzett has conclusively demonstrated in his researches on the oxidation of essential oils that peroxide of hydrogen is one of the products, and he consistently argues that, as similar chemical reactions occur in the leaves of coniferous trees, peroxide of hydrogen, and not ozone, is the oxidising agent contained in the air. He does not attempt to unduly press forward this theory in the book, for the purpose of "Nature's Hygiene" is to convey in popular style a knowledge of the laws which determine decay, putrefaction and the like, and the first principles of the science related thereto. In our notices of the previous editions we have fully commented on the interesting way in which the author deals with the subject. We need only add now that the advances made during the past few years in our knowledge of micro-organisms and their place in nature have been critically watched by the author, and he imports into the present edition many new and interesting facts and observations related thereto. In short, he indicates "the precise relations, as cause and effect, which are now known to exist between micro-organic life and so-called infectious or contagious diseases." The present edition also contains an account of recent investigations on the chemistry of camphor oil and Russian turpentine, much more information regarding the eucalyptus forests and the therapeutic progress of the oil of eucalyptus, as well as an interesting chapter on the production of camphor oil. As a whole the volume is one of great interest and value to students of hygiene, and the author is to be congratulated on the manner in which he treats a subject which is of some commercial importance to himself.

*Soaps and Candles.* Edited by James Cameron, F.I.C. London: J. & A. Churchill. 1888. 8vo. Pp. x. + 306. 7s. 6d.

This is the fifth of the series of Technological Handbooks published by the Messrs. Churchill, which deal with industries in which chemical science plays a less or more important part. The handbooks are intended to take the place of those ponderous cyclopædias which are expensive to buy and are always falling behind the knowledge of the day. We take it that as this series is based on the matter contained in Cooley's "Cyclopædia" that that useful and favourite volume with pharmacists will ere long be replaced by a number of fresh little volumes, each edited by an expert in the subject which it more especially deals with. Mr. Cameron made an interesting work out of "Oils and Varnishes," the previous volume of the series, and in the present volume he gives a satisfactory treatise on the art of soapmaking, extending to 203 pages, the rest of the book being devoted to candle-making. The principal chapters in the first part are those on soap-making materials, saponification, apparatus and arrangement of the factory (an exceedingly well illustrated chapter), classification of processes, and chapters on household, toilet, medicinal, and other soaps, together with a valuable chapter on the testing of soaps. The toilet soap

chapter contains numerous formulæ and excellent illustrations of apparatus required in the formation of tablets; formulæ are also to be found in other parts of the volume, many of these being taken from this journal. In the second part the manufacture of candles is taken up, and the editor describes the materials which are employed and the treatment which they undergo before they are rendered fit for candle-making, while the subsequent stages of manufacture are elucidated by sketches and descriptions of the machinery employed. In the chapter on by-products of candle-making the properties and tests for glycerine are described, and in a similar chapter under soaps its recovery from soap-lyes by a number of patented processes is treated; but the removal of glycerine from fats before saponification is only represented by brief abstracts of Imray's and other patents, Price's method, the most important, not being referred to. One feature of the volume is the number of references to sources of fuller information. The employment of this system has enabled the author to give brief references to many matters and processes which the smallness of the volume would otherwise have compelled him to omit. The book shows evidence of greater editorial care than was apparent in "Oils and Varnishes," especially in regard to typographical errors. It is a book which we can recommend for the chemist's library.

*The Extra Pharmacopœia.* By William Martindale, F.C.S. Medical References, &c., by W. Wynn Westcott, M.B. Fifth edition. London: H. K. Lewis. 1888. 12mo. Pp. 462. 7s. 6d.

In our brief reference to the publication of a new edition of "The Extra Pharmacopœia" we mention that over 150 new notes have been introduced, but this by no means represents the amount of work done in bringing the present edition up to date. The fourth edition contained 416 pages, the present one numbers 46 more, and old matter has been so condensed that the additions actually amount to 68 pages. The old prefaces have been excised, and the one which is provided for the present edition is practically a summary of the advances which have been made in therapeutics and pharmacy during the past three years. To this the authors also add that "we have been flooded with a series of preparations, principally of American origin, which owe their popularity in a great measure to the force of advertisement." There is an element of truth in this statement, doubtless, but, strange to say, many additions to "The Extra Pharmacopœia" show most unmistakably that German preparations figure more largely amongst new remedies than do those of American origin. Antipyrin, antifebrin, salol, phenacetin, sulphonal, urethane, saccharin, the revival of methylal, carbolate of mercury, and other chemical products, have come to us from Germany, and German clinical reports (which are somewhat on a footing with analysts' certificates) are mainly responsible for their progress. We need not complain of this. Medicine, like everything else, must be progressive, and medical treatment is in many cases, like the fashions, the better for change. Unquestionably in the course of time many useless articles are introduced, and on the shelves of pharmacies unsaleable things do accumulate; but that is a drawback common to shop-keeping; and, looking at the professional aspect of medicine and pharmacy, we can see by the changes which the authors of "The Extra Pharmacopœia" have made in the book that substantial progress is always being made. The information given in the book regarding all new remedies and their preparations is exceedingly concise and thoroughly practical. It is the modern tendencies of medicine which have made an extra Pharmacopœia not only possible but indispensable to the physician and the pharmacist. There are few pages in Mr. Martindale's book which do not show his intimate acquaintance with the prescriptions of leading medical practitioners, as well as progress in practical pharmacy, while Dr. Westcott has gleaned medical periodicals to some purpose in order to bring the therapeutic notes and references up to date.

A SIMPLE CHLOROFORM TEST.—Shake 10 c.c. (3ijss.) with 2 c.c. (3ss.) of distilled water, add a drop of phenolphthalein solution, and 1 drop of decinormal potash solution, shake repeatedly in a ½-oz. stoppered phial. The red colour should not disappear in twenty-four hours.



## AN UNPACIFIC YARN.

THE following are the verses which were published in the *Banner of Faith* as Messrs. Pears' advertisement, and which so aroused the anger of the right reverend, reverend, and other readers of that publication as to induce the publishers to refuse a 500*l.* advertisement from Mr. Beecham rather than chance another row of the same kind:—

The Bishop Q., of Wangaloo, in Unpacific Seas,  
A service fair, conducted there, in dignity and ease;  
Though white within, and free from sin, it was a fact that he  
Unto the eye, externally, was black as black could be.

The Bishop Q., of Wangaloo, beloved was of all,  
The Unpacific residents, his people great and small,  
They often said, "A Bishop bred, and born of native stock,  
Is fitter than another man to guide a native flock."

But Oh! Alas! a dreadful pass he came to on the day  
That Bishop Brown, of Monkeytown, a visit came to pay;  
Whose features fair and silver hair, their fauzy quickly ga'n'd,  
Whose tuneful voice, and learning choice, affection soon obtained.

The natives all, both great and small, admitted with a groan,  
That Bishop Brown, of Monkeytown, was better than their own;  
That though they knew that Bishop Q. was pure and free from guile,  
He must arrange to make a change, and leave his native isle.

Then Bishop Q., of Wangaloo, his visage wet with tears,  
Repair'd to Brown, of Monkeytown, to intimate his fears  
That base and rude ingratitude, and unbecoming slight,  
Would leach with care his aged hair, because he wasn't white.

Said Bishop Brown, of Monkeytown, "Although a grievous case,  
I'll guarantee, if you'll agree, to change your nigger face,  
That you'll obtain their love again, so buoy yourself with hope,  
And I'll give you a cake or two of Pears' Transparent Soap."

Then Bishop Q., of Wangaloo (his present safe to hand),  
With visage bright, and spirits light as any in the land,  
And grateful heart, did now depart upon his homeward path,  
And arm'd with hope, and Pears' Soap, repair'd unto his bath.

With bow polite, complexion white, and hands of lily hue,  
And noble mien, he did couvene that Unpacific crew:  
That sable flock of native stock, who, frighten'd and amaz'd,  
For pardon to the Bishop Q., their supplications raised.

And thus with hope, and Pears' Soap, and bath and water plain,  
The love of all, both great and small, the Bishop did regain.  
And now without a care or doubt, his features wreath'd in smiles,  
Lives Bishop Q., of Wangaloo, in Unpacific Isles.

## MORAL.

That cleanliness and godliness go ever hand in hand;  
From maxims sage, of greatest age, we're led to understand.  
The former clasp within your grasp (and for the latter hope),  
By getting through a cake or two of Pears' Transparent Soap.

And when you've tried, you will decide without a single doubt,  
That such a sweet and fragrant treat you'll never be without:  
That all around will ne'er be found a maker that can cope,  
In purity and quality, with Pears' Transparent Soap.

"A PENN'ORTH of patchouli and chuck it over us," was the order, verbally given, by a young Lancashire lass to a sedate pharmacist the other day.

PHONETIC PHARMACY.—"I want some consecrated lye," he slowly announced, as he entered the store. "You mean concentrated lye," suggested the druggist as he repressed a smile. "Perhaps I do. It does nutmeg any difference. It's what I camphor anyhow. What does it sulphur?" "Nine-pence a can." "Then you can give me a can." "I never cinnamon who thought himself so witty as you do," said the druggist, in a gingerly manner, feeling called upon to do a little punning himself. "Well, that's not bad either," laughed the customer, with a sly, mischievous glance. "I ammonia novice at the business, though I've soda good many puns that other punsters reaped the credit of. However, I don't care a copper as far as I am concerned, though they ought to be handled without gloves till they wouldn't know what was the matter with them. Perhaps I shouldn't myrrh-myrrh. We have had a pleasant time, and I shall caraway—" But the poor druggist lay dead.—*Detroit Press.*

## THE SONG OF THE PILLS.

(With apologies to the shade of Tom Hood. He would have called it *Tom-foolery*, in all likeli-hood.)

WITH fingers weary and worn,  
With head all muddled and sore,  
A chemist beat an unworkable mass,  
And said the trade was a bore.  
Pound! pound! pound!  
Low prices and unpaid bills;  
And still with a voice of Burgundy pitch  
He sang the "Song of the Pills!"

"Work? slow work!  
Customers holding aloof;  
Work! late work!  
(The moon shines on the roof.)  
It's oh! to be a boy!  
I'd learn the barber's work;  
For I'll soon be in an untimely grave,  
And I'm treated like a Turk.

"Sad, hard times!  
A case of sink or swim;  
Cheap-John times!  
The future dark and dim.  
Pestle and mortar and pills,  
Spatula, salve, and slab,  
While I've a melancholy face,  
And a temper like a crab."

(Here a former good customer came in for a pennyworth of red precipitate, which he could not get at the stores)

"Oh, men with sisters dear!  
Oh, men with ailing wives!  
I wish you wouldn't go to the stores,  
Embittering our lives.  
Cheap! cheap! cheap!  
Is all the cry to-day;  
While we small men are left in the lurch,  
And can't make anything pay.

Thankless, weary work!  
Depression never flags;  
Next thing with me will be a smash,  
The Bankruptcy Court, and—rags!  
I've a splendid front, and mosaic floor,  
And cornices rich and fair,  
But the till's so blank, a penny I thank  
For sometimes falling there."

(Here he made a fortune on a penny stamp.)

With face and look forlorn,  
And sorely wearied brain,  
The chemist worked away at his mass  
In mental and bodily pain.  
Pound! pound! pound!  
He brooded o'er his ills;  
And, still with a voice of dolorous pitch  
(B Minor or Major, I don't know which)  
He sang this "Song of the Pills!"

DUNALBA. (79/70.)

ANOTHER, but not a serious, objection to the use of anti-pyrin is that it blackens the teeth of those who take it. This inartistic interference with Nature's intentions appears to be due in some measure to the absence partially or wholly of the enamel from the teeth. The black stains can be removed by the use of perfumed oxygenated water for several days.

GERMAN SKILL.—We understand from Hamburg that a representative of the gold-mining industry in New Zealand is now in Germany trying to ascertain how it is that the Nord Deutsche Affinerie in Hamburg, and similar factories in Dresden, can afford to buy naked ore in New Zealand, pay the present high freight from the Antipodes to the North Sea ports, and an additional railway freight to the interior, and still make a good dividend from what our countrymen have left behind them in the shape of ore, arsenic, and antimony.



## VEGETABLE RENNET.

E. J. R. GREEN, B.A. Cantab., B.Sc. London, Professor of Botany to the Pharmaceutical Society.

THE author, in a paper contributed to *Nature* (July 19), draws attention to the analogies existing between "plants" and "animals." In both kingdoms we have as the basis of the life of protoplasm the continual building up of the living substance at the expense of the materials brought to it as food, and the constant breaking down of its substance with the appearance of different organic bodies, which are strictly comparable in the two cases. The vegetable protoplasm produces starch, the animal glycogen—both carbohydrate bodies of similar composition and behaviour. In both organisms we meet with sugars of precisely similar character. The proteid bodies long known to exist in animals, all classed into albumins, globulins, albumoses, peptones, &c., have been found to be represented in vegetables by members of the same groups, differing but in minor points from themselves. We have fats of complex nature in the animal represented by oils of equal complexity in the vegetable, their fundamental composition being identical; even the precious body lecithin, so long known as a constituent of nervous tissue in the animal, has been procured from the simplest plant. In some other departments there are equally striking analogies, and within recent years no line of research has been more productive of good results than the investigation which have been made into the occurrence of unorganised ferments, and we now know that the diastase of vegetables has similar properties to the ferments of the salivary pancreatic juice, while the peptic and tryptic ferments of the stomach are known to have their analogues in the vegetable kingdom, and in some respects the actions of these different bodies are interchangeable.

The latest development in this department of research has been the discovery of ferments in the vegetable kingdom which are comparable in their action with the rennet which is obtainable from the stomach of many young animals, particularly the calf. In the gastric juice is a principle which has the power of curdling milk—a property taken advantage of by the farmer in the process of manufacturing cheese. The *casein*, which is the proteid concerned in cheese-making, is, under appropriate conditions, converted by this body into an insoluble form, which, for want of a better name, may be called briefly cheese. The conversion is not to be confused with the loose curdling which takes place when milk becomes sour from putrefactive changes or from the addition of an acid, for it is a true coagulation, resembling the clotting of blood. Now, recent investigations show us that in many plants a similar ferment exists, which possesses an identical power, producing, when added to milk, a clot which is quite indistinguishable from that which is formed under the action of animal rennet. The list of such plants is continually increasing, but they do not appear to be grouped at all on the basis of the recognised natural orders. Ranunculaceæ, Sanaceæ, Cucurbitaceæ, Compositæ, Galiaceæ, and others, furnish us with conspicuous examples.

At a meeting of the Society of Natural Science of Stockholm, held about four years ago, the Secretary brought before the notice of the meeting the fact that the common butterwort (*Pinguicula vulgaris*) possessed the very curious property of causing a clotting of milk when the vessels in which the milk was contained had been first rubbed over with the plant. No explanation was offered of the phenomenon, but a suggestion was made that the power might be due to the presence of micro-organisms. Judging from analogy, it is more likely to be due to a specific unorganised ferment. The occurrence of this in *Pinguicula* is very significant, as bearing on the similarity of the metabolism in animals and vegetables, for *Pinguicula* is one of the carnivorous plants, depending, by the aid of its secretions, flies which it captures in its leaves. We have so associated in the same plant a proteolytic and a rennet ferment, a condition which at once recalls the gastric juice of animals, in which both these bodies are present.

One of the most interesting of the plants which contain this ferment, or vegetable rennet, is the so-called "Naras" of

the West Coast of Africa (*Acanthosicyos horrida*), a species of Cucurbitaceæ met with in dry, sandy, and desert places in Namaqua Land, Whale Bay, and the Mozambique district. The ripe fruit of this plant is much like an orange in appearance, has a very powerful and pleasant aroma, and its pulp is juicy and agreeable to the taste. In the unripe condition it is bitter and uneatable. According to Marloth, the natives eat it to a very great excess, both fresh and in the form of "Naras cake," a preparation of it made by drying the expressed pulp and juice in the sun.

Its power of causing the clotting of milk is well known among the natives of the part, who use it freely for that purpose. The ferment is soluble, according to Marloth, in alcohol of 60 per cent. strength, an extract of the pulp made with that fluid retaining the power to coagulate the milk. The ferment is destroyed by boiling, but will remain for an almost indefinite time in the dried rind. Marloth, in his experiments, found that an extract of pulp dried to a friable condition in the sun was quite active in causing coagulation. The writer had the opportunity recently of examining some dried rind and some old seeds. An extract of these materials, made with 5 per cent. solution of common salt, showed the ferment in abundance in the rind, but absent from both the testa and the interior of the seeds.

Another plant, occurring nearer home, has the same property. This is the common yellow galium (*G. verum*). In his "Popular Names of British Plants," Prior speaks of its peculiarity as being known in the sixteenth century, when Matthioli wrote of it, "*Galium inde nomen sortitum est suum quod lac coagulet.*" In the West of England, particularly Somersetshire and Herefordshire, it is still the custom of dairymen to put this plant into the milk they have devoted to cheese production, to "set" it. The practice is to put the whole plant, or as much of it as is above ground, into the milk, but the active principle seems to be located in the flowers. The white galium (*G. Aparine*) is said to be devoid of the property.

The common traveller's joy (*Clematis Vitalba*) is another instance of the occurrence of this ferment. It is peculiar in one respect, the property appearing to be situated in the tissue of the stem, probably the soft bast. In most other cases it seems to be attached somehow to the reproductive parts of the plant. The ferment has also been found in the petals of the artichoke (*Cynara Scolymus*).

Dr. Sheridan Lea discovered the ferment three years ago in *Withania coagulans*, a plant which grows freely in Afghanistan and Northern India, and the natives there have for a long time employed an aqueous extract of the capsules to curdle milk. *Withania* is a genus of the order Solanaceæ, and has a capsular fruit, containing a large number of small seeds. The ferment was found to exist to a very slight amount in the stalks of the fruits, and to be extremely abundant in the seeds. From the ground seeds it could be extracted easily by maceration with solution of common salt and by treatment with glycerine; boiling destroyed it, but the ferment could be kept by the aid of common salt and a little alcohol. Its commercial value is somewhat interfered with by the presence in the seeds, and in their extracts, of a peculiar yellowish-brown colouring-matter, which cannot be separated without destroying the rennet.

Since the publication of Dr. Lea's researches the writer has met with the ferment in the unripe seeds of *Datura Stramonium*, a plant belonging to the same order, Solanaceæ. In this plant, though present in the unripe seeds, it appears to be absent from them when ripe. Its exact distribution is, however, not yet determined.

The occurrence of this property in so many plants, and these not at all closely connected in other ways, leads to the consideration of what must be its physiological significance. It is, perhaps, not difficult to see why rennet should occur in the stomachs of young animals whose food consists chiefly of milk, but its importance in the vegetable kingdom must be independent of such a function. Further researches, still in progress, may perhaps throw some light upon this point. It is significant so far to notice that its occurrence is mainly in those parts which are especially connected with the reproduction of the plant, a fact which seems to point to a possible function in connection with the storage of proteid food materials for the nutrition of the embryo during germination.



## TRADE-MARKS APPLIED FOR.

**THE Trade Marks Journal** publishes the following notice:—"Any person who has good grounds for objection to the registration of any of the following marks may, within two months of the date of this journal, give notice in duplicate at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1883, of opposition to such registration." The address of the Patent Office is Southampton Buildings, London, W.O.

*From the "Trade Marks Journal," July 18, 1888.*

"WILLIAMSON'S DEFIANCE EMBROCATION" (in script); for an embrocation for human use. By Henry Williamson, Bull Ring, Ludlow. 62,839.

"SOMNIFERO," over figure of a sleeping man, on label; for medicines. By J. H. Lewis, 22 Great Portland Street, W. 66,750.

Figure of a nurse washing her hands; for chemical substances (Class 3), and soaps, &c. (Classes 47, 48). By Jeyes' Sanitary Compounds Company (Limited), 43 Cannon Street, E.C. 66,985-7.

"COOPER'S OILS," under figure of a horse rampant; for an ointment for human use. By W. Cooper, 70 St. Mary's Road, Faversham. 67,035.

Figure of a female bather; for sea salt. By D. W. Dickson, 39 Lombard Street, E.C. 68,056.

"S. M. P. C.," and figures of orbs; for medicinal pastilles. By R. S. Strauss (trading as the Soden Mineral Produce Company), 10 Dyer's Buildings, Holborn, E.C.

"SINCLAIR'S VOLCANO BAKING-POWDER," on figured label; for baking-powder. By J. Sinclair (trading as James Sinclair & Co.), 65 Southwark Street, S.E. 70,018. Also "Excelsior"; for rennet and annatto for cheese-making. 71,325.

"DAY & SONS' RED DRINK," and other wording, on label; "Day & Sons' Purified Driffield Oils," and other wording, on label; "Day & Sons' Black Drink," and other wording, on label; for veterinary preparations. By Day & Sons, Crewe. 70,345-7.

Figure of mural ruins; for aerated waters. By R. Wightman, Pilgrim Gate, Pilgrim Street, Newcastle-on-Tyne. 730,33.

"VICTOR'S FRUIT PILLS" (in script); for pills for human use. By Victor & Co., 140 Leadenhall Street, E.C. 73,634.

"DODD'S FEMALE," and other wording; for pills, mixtures, and other medicinal preparations. By R. J. Dodd (trading as Jefferson Dodd), 70 Tottenham Court Road, W.

"PEPSONYMIN"; for a medicine for indigestion. By F. Spite & Co. (Limited), St. Enoch Square, Glasgow. 74,324.

"GILLINGWATER"; for hair dye and toilet preparations. By C. J. Bloodworth (trading as Gillingwater & Co.), 50 Theobald's Road, W.C. 74,377.

Figure of a church, on label; for aerated waters. By G. H. Steel, Campbell Street, South Shields. 74,597.

"SURE TO KILL," and figure of a hound chasing a hare; for an insect-destroying preparation. By Adam Young, Lochwinnoch, N.B. 75,145.

"W. B." within a border; for aerated waters. By W. Brandon, 112 Virginia Road, Hackney Road, E. 75,146.

Figure of a windmill; for aerated waters. By C. E. Beavis, 19 Cathay, Bristol. 75,202.

"MANDRAKE," and figure of a drake with a man's head; for an embrocation. By J. Barrett, 21 Beresford Road, Highbury New Park, N. 75,256.

"CUFF'S SODA WATER," on label; for soda water. By J. H. Cuff, Atkinson Street, Deansgate, Manchester. 75,262.

*From the "Trade Marks Journal," July 25.*

"C. B." within a star; for preparations for corns and bunions. By H. Corlett, 245 Park Road, Liverpool, 73,166.

Figure of a kangaroo on round label; for an embrocation. By D. B. W. Sladen, 24A Alfred Place West, South Kensington, 73,482.

Figure of a hart's head, designation of depositors and motto on round label; for chemical substances, foods, soaps, &c., and perfumery. By Horner & Sons, Mitre Square, Aldgate, E.C. 73,521, 73,524-6.

"PEARL DISINFECTANT SILVER PLATE POLISHING POWDER" and other wording on fancy labels; for plate powder. By J. Johnson & Co., 79 St. Anne Street, Liverpool. 74,977.

"POUDRE DE DIANE DE POITIERS," "Savon de Diane de Poitiers," "Eau regeneratrice de Diane de Poitiers," "Eau de toilette de Diane de Poitiers," "Eau Dentifrice de Diane de Poitiers," "Crème de Diane de Poitiers," and "Eau Valentinoise de Diane de Poitiers," each with figure of a woman's head and signature; for the respective preparations. By J. E. Brearey, 1 Gresham Buildings, E.C. 75,289-94, 75,497.

"SELLARS CEMENT" for cement Class 17. By J. C. Sellars, chemist, Birkenhead. 75,285.

"NEIGEINE"; for a powder for the preservation of food. By W. T. Deeks, Shanklin, Isle of Wight. 75,378.

"MERMAID"; for perfumery. By S. Dyson, trading as James Dyson & Co., Atlas Works, Elland. 75,578.

"ALMOND BLOSSOM"; for a new perfume. By W. H. Webb, chemist, Weston-super-Mare. 75,620.

Figure of a boy; for aerated waters. By J. R. Williams, Wellfield Street, Oldham. 75,872.

"G. & G., measure for measure" on circular device; for chemical substances. By R. D. Gibbs and J. Cuxson, trading as Gibbs, Cuxson & Co., Wednesbury. 75,965.

"NOMOS"; a device for chemical substances. By R. T. Bruce & Co., 5 Commercial Road, Hull. 75,991.

Shield-like device; for aerated waters. By W. Wright, Long Eaton. 76,159.

"SADBURY'S CURATIVE LOTION FOR THE CURE OF CAPPED LOCKS" and device for that lotion. By M. W. Sudbury, 35 South Everard Street, King's Lynn. 76,127.

TRADE IN JAMAICA.—The year 1887 has been a fairly prosperous one for the island of Jamaica. The revenue during the financial year amounted to 495,093*l.*, as compared with 473,349*l.* in 1885-6, partly, it is asserted, owing to a general improvement in business. The value of the imports into Jamaica was 1,351,394*l.* in 1886-7, against 1,325,603*l.* the year before. The United Kingdom furnished 54·7 per cent. of this, the United States 33·6 per cent., Canada most of the rest. The exports also show a considerable increase, from 1,280,118*l.* (including 201,803*l.* re-exports) in 1885-6, to 1,509,010*l.* (including 174,542*l.* re-exports) in 1886-7. The principal item of export from Jamaica is rum, representing 20 per cent. of the entire value; then follow sugar, fruit, and coffee. The cultivation of pimento is evidently not very flourishing, for while in 1880-81 pimento shipments represented 8 per cent. of the value of all the produce exported, they were only 3 per cent. in 1886-7. The following are the quantities of the principal pharmaceutical articles exported from Jamaica:—

	1886-7	1885-6	1884-5	1879-83
Pimento .. lbs.	7,335,712	6,919,087	9,794,078	10,215,479
Ginger .. "	1,111,926	1,193,158	9,379,056	889,847
Arrowroot .. "	1,693	1,010	1,008	4,480
Drywoods (fustic and logwood) .. tons	£3,114	65,082	57,533	48,024





*The following applications for Patents have been registered at the Patent Office.*

- Acetic Acid.**—9,835.—July 6, 1888.—R. Weiss. Manufacture of, and its by-products.
- Corns, &c.**—10,352.—July 17, 1888.—J. T. Monks. Improved shield for corns, &c.
- Distilling in Vacuo.**—9,658.—July 3, 1888.—W. L. Horne.
- Feeding-bottles.**—10,450.—July 19, 1888.—S. Washington. Regulator for.
- Fish Brush.**—9,703.—July 4, 1888.—E. Fleming & Co.
- Iodine.**—9,166.—June 23, 1888.—H. Suilliot and H. Raynaud. Production of iodine and iodine compounds.
- Puttapercha Substitute.**—9,980.—July 10, 1888.—Thomas Christy. Manufacture of new composition to be used as cement or for moulding purposes.
- Label Case.**—10,059.—July 11, 1888.—H. Moss. Case to contain ordinary dispensing labels.
- Medicine-bottles.**—9,551.—June 30, 1888.—A. J. Boulton. Improvements in.
- Milk Preservation.**—10,171.—July 13, 1888.—J. Greenwood. Preserving milk and destroying all disease germs therein by means of electricity.
- Oils.**—9,369.—June 27, 1888.—J. Campbell. Manufacture and preparation of oils.
- Rheumatism Cure.**—10,478.—July 19, 1888.—D. Brocca. Compound for the relief of rheumatism, gout, and other diseases.
- Sap.**—9,847.—July 6, 1888.—Margaret Taylor. An improved compound.—9,857.—July 6, 1888.—J. J. Bowley. Improvements in manufacture of.—9,974.—July 10, 1888.—J. H. Barry. Improvements in disinfecting.
- Sap-powder.**—9,796.—July 5, 1888.—J. M. McCallum. Method of manufacturing.
- Sugar of Lead.**—9,858.—July 6, 1888.—J. Löwe. Improved process of manufacture.
- Sulphonal, &c.**—10,315.—July 16, 1888.—J. Y. Johnson. Process for the production of mercaptols.
- Surgical.**—9,218.—June 25, 1888.—J. C. Weston. Combined therapeutic stuffings.
- Stings.**—9,420.—June 28, 1888.—M. Overlach. Improvements in.
- Varnish.**—10,179.—July 13, 1888.—W. M. Power. Manufacture of a non-blooming picture varnish.—10,301.—July 16, 1888.—E. Oates. Improved removing compound.
- Wheat as Soap.**—9,161.—June 23, 1888.—A. Macqueen. Use of wheat as a substitute for soap, and introduction of wheat in the manufacture of soap.

*Specifications recently published.*

(Postage, 1d. each extra.)

1887.

1930. P. P. Olsson. Knitting machines.
1906. A. R. Stocker. Infants' feeding-bottles. 8d.
1260. C. Kolbe. Salicylic esters. 6d.
1906. E. H. Hutchinson. Compressing solid and liquid disinfectants, &c. 8d.
1753. S. Mitchell and T. Robertshaw. Administering nitrous oxide gas, &c. 8d.
1953. F. W. Warrick. Stands for tooth and nail brushes, &c. 8d.

- 10,955. L. Mond. Obtaining ammonia, &c. from ammonium chloride. 6d.
- 11,230. T. Needham. Beverage. 6d.
- 11,445. A. J. Boulton. Surgical apparatus for making incisions without pain. 8d.
- 11,816. R. Lonsdale. Medical magnetic appliances. 8d.
- 13,033. F. W. Child. Medicine bottle. 8d.
- 13,177. S. Appleby. Ingot moulds, &c. 8d.
- 14,786. H. Barrow. Trusses, &c. 6d.
- 15,766. C. Collin and others. Preventing the formation of injurious animal or vegetable germs, &c. 6d.

1888.

- 1,693. A. Nicolle. Phosphorus. 6d.
- 2,802. H. H. Glenck. Lotion for the hair and scalp. 4d.
- 2,870. E. Tuthill. Oil from birch-tree bark. 4d.
- 3,171. A. J. M. Lyle. Aërated beverage. 4d.
- 3,393. T. P. Milligan. Gelatine glue and size. 6d.
- 3,949. P. M. Justice. Hydrochlorate of quinine. 4d.
- 4,284. M. R. Wood. Monocarbonate and bicarbonate of soda, &c. 8d.
- 4,942. A. Dunbar. Hypodermic syringes. 8d.
- 6,323. G. C. Wallich and others. Inhalers. 6d.
- 6,354. A. Knoop. Aërated liquids, &c. 6d.
- 6,478. W. P. Thompson. Preventing the decomposition of organic substances. 4d.
- 6,839. J. Woods. Non-intoxicating beverage. 4d.

*The following Patents have become void through non-payment of renewal fees:—*

1884.

- 1,998. J. Imray. Decarbonating carbonate of strontia.
- 1,999. J. Imray. Strontia treatment of saccharine liquors.
- 2,052. J. W. Cousins. Instrument for the ear.
- 2,113. E. Lawton. Remedy for diseases.
- 2,491. T. Heskin. Producing ammoniac chloride.
- 2,662. S. Musgrave. Putting up marking-ink, &c.
- 2,691. E. Bevan. Pessaries.
- 2,970. J. Finley. Silvering, &c. plate powder.
- 3,096. E. T. A. Smith. Stethoscopes.
- 3,659. J. Glendening. Abdominal supporter.
- 3,751. A. McGuffie. Compound for curing phthisis, &c.
- 4,197. T. Toogood and another. An oro-nasal steam inhaler.
- 4,268. S. G. Thomas. Manufacture of alkalies, &c.
- 4,362. F. Wirth. Manufacture of cream of tartar.
- 4,579. C. Lea. Manufacture of trusses.
- 4,947. S. G. Thomas. Phosphatic salts.
- 5,154. J. Imray. Making of resin soap.
- 5,175. J. Brown. Disinfecting compounds.
- 5,328. J. B. Mackey. Preparation of soluble neutral salts of cerium.
- 5,611. B. Jacobs. Toilet appliances.
- 5,683. R. Griffiths. Medicinal food for animals.
- 5,887. J. Wetter. Antimonial compounds.
- 5,930. T. Terrell. Decomposing sulphate of iron.
- 5,945. W. H. Bliss and another. Beverages or drinks.
- 5,975. J. Wilson. Chlorate of potash.
- 5,998. J. S. Gamgee and another. Substitute for sponges.
- 6,001. G. Jaeger. Preparation of food for medicinal purposes.
- 6,051. W. V. Wilson and another. Compounds for varnishes, &c.
- 6,144. H. H. Lake. Gelatine capsules.
- 6,215. W. P. Thompson. Purifying sulphuric acid, &c.
- 6,249. W. R. Barker and others. Food for invalids, &c.
- 6,250. W. R. Barker and others. Food for invalids, &c.
- 6,304. E. Sonstadt. Salt and antiseptic substances.
- 6,331. F. Wirth. Capsuling machines.



## BRITISH AND FOREIGN CONSULS' REPORTS.

## CHINA.

*Aniline dyes at Chinkiang.* The imports of aniline dyes at Chinkiang have increased in value from 8,657*l.* in 1886 to 9,945*l.* in 1887, and are used to dye the finer kinds of cotton cloth. The colours derived from them soon fade, and they compare unfavourably in this respect with native dyes. Indigo is still grown here in increasing quantities every year, and hardly suffices to supply the demand for dyeing the larger imports of foreign shirtings. The aniline dyes come chiefly from Germany—Lembke, Gipferich, Baumfeldt, and Offenbach being the chief names. English manufacturers who could impart more permanency to their dyes would obtain a large sale in Chinkiang.

*Soap, foreign and native.* Among other imports foreign soap (21,259 boxes) is for the first time recorded as having arrived; this is very gratifying, and there are ample opportunities in China for a further extension of this import. The Chinese only use of their own manufacture an alkaline earth and soap beans. The imports of native soap have increased from 357,497 lbs. in 1886 to 1,318,094 lbs. in 1887. It is made from an efflorescence which appears on the ground in the early morning, and comes from the country in the vicinity of the Yellow River breach. Rain destroys it, and the unusually dry weather of this autumn has been favourable to its production. The sun also melts it, and it must be gathered in the very early morning. It is after collection boiled for some time, the scum removed, the useful part sinking to the bottom; the water is then drained off, and the residue mixed with alkali. This is then placed in boxes, and is ready for sale; it is chiefly used to wash clothes; soap beans, the pods of the tsao-ko tree, being preferred for the hands.

*Vegetable Tallow and White Wax.* Vegetable tallow has also increased from 6,731,600 lbs. to 7,106,748 lbs., and white wax from 85,066 lbs. to 118,599 lbs. The former costs 26*s.* to 27*s.* a picul, and comes from Hu-pei and An-Hui; the latter, costing 175*s.* a picul, comes from Sze-Chuan. These two articles are used to make the large candles used in temples, and the dips used by the poor and by the boating population. The body of the candle is made from the tallow, and a layer of wax is placed outside to prevent rapid melting. These candles are also placed in lanterns for illuminating purposes.

*Varnish.* used to polish furniture and the interior of houses, takes the place with the rich of wood-oil among the poor. It costs 146*s.* a picul, and the imports have increased from 181,000 lbs. to 210,577 lbs. Prices have been high this year, as it has been largely in demand for coffins, which the Chinese think it lucky to make in a year with an intercalary month. It is produced in Yunnan, Kwei-Chow, Shensi, and Sze-Chuan, and is made from the sap of Huai trees. The sap exudes at the rate of a picul a day per tree. The best comes from Yunnan; it will not keep over a year, when it becomes too liquid for use.

## DUTCH COLONIES.

*Curaçao Aloes.* Curaçao aloes are less the produce of the island of Curaçao itself than of the neighbouring islands of Aruba and Bonaire. The exports during the three years 1884-86 have been as follows:—

	1884	1885	1886
	Kilos.	Kilos.	Kilos.
Bonaire .. ..	19,053	5,821	18,640
Curaçao .. ..	—	2,080	500
Aruba .. ..	98,960	123,115	158,011
Total .. ..	118,013	131,016	177,151

## GERMANY.

*The Chemical Trade at Frankfurt-on-Maine.* The chemical business showed an increase during 1887, though prices continued depressed. Ammonia preparations were in demand, whilst in the manufacture of soda the situation appeared rather unfavourable, the ammonia process of manufacturing soda having almost superseded the

process adopted by Leblanc, so that the makers show a marked preference for the former system. Aniline dyes were more in demand. Although foreign competition is felt more every day, the advantages which the German industry enjoys appear to be up to all requirements.

*Frankfort Soap and Perfumery.*

The manufacture of perfumery and soaps is very considerable in this city, and the results obtained in 1887 are satisfactory. It is to be mentioned that Paris and London manufactures are preferred in Germany, although experts maintain that the superiority of German makes was acknowledged long ago. The export to England, considerable as it was, is much affected by the new Merchandise Act.

## SPAIN.

*Hints to British Traders.*

The practice of German manufacturers, to send young men to find out the needs of the people, to learn their language and industrial powers, is not being followed by English manufacturers, though no doubt the latter would be able, with English goods, to compete with Spanish manufacturers. Of course we must expect imitation and competition from the industrious and intelligent Catalan people; but we have something worse than that now; they do not imitate for the sake of imitating English goods, for their colours, designs, &c., are produced from the brain and the natural taste of the people; but they put up the native wares for sale as English, and no patents or trade-mark will protect our goods, or prevent the Catalans from imposing their wares as English make and English production. High-class goods have found good sales during the year, and they will no doubt continue to find an excellent market; but this success may be short-lived, because foreign manufacturers come here and manufacture for themselves what the Catalans may not have yet learnt to make. It is a mistake to suppose that Barcelona is not able to absorb the finest articles manufactured in England; wealth and pride do it, and the rich will go to any expense to obtain the finest articles made.

*Imports and Exports.*

The countries from which Barcelona imports most are, in order of importance, the United States, Germany, France, and the United Kingdom. The exports of Barcelona mostly go to Mexico, the Argentine Republic, Italy, the United Kingdom, and France. The imports included, in 1887, 57,364 tons of drugs and chemicals and 108 tons of mineral waters.

*The Alcohol Question.*

There has been a good deal of trouble in Barcelona last year about the question of the importation of foreign alcohol. Those who desired the introduction declared that it was necessary to the fortifying of their wines, as they could not distil, for many reasons, Spanish wines into spirits to elaborate the weaker and deteriorated wine. Those who opposed the introduction denounced the German alcohol as poisonous and deleterious to health and morals, but all agreed that the stuff introduced generally was rubbish, and unfit for drinking purposes. The controversy continued for months, when a Royal Order was promulgated that all spirits imported into Spain were to be subjected to strict examination, and that those found not properly rectified should be rendered unfit for mixing with wines.

*The Barcelona Exhibition.*

It is much to be regretted that so few Englishmen have come forward as exhibitors, for it is believed by those interested in the development of British trade that the Exhibition might have been of great service in showing Spain what English goods are, their first-rate quality and moderate prices. This is the first enterprise of real importance of its kind that has been brought out in Spain. When too late English manufacturers may regret their inertness.

## TURKEY IN ASIA.

*Trade at Beyrout.*

During the year 1887 the value of trade in the consular district of Beyrout has somewhat decreased, and British trade has suffered comparatively heavily. In the future it is thought that the value of the imports will still further decrease, and the exports trade, which is capable of very considerable extension, is hampered and stunted by the absence of railways, good roads, and readily accessible harbours.



## Trade Report.

**Note to Retail Buyers.**—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., July 26.

**BUSINESS** has been exceedingly quiet since our last report, and as the holiday season is now commencing no improvement can be looked for until the beginning of autumn. The drug auctions to-day passed off extremely dull and with few alterations. Cape aloes were, perhaps, just a trifle easier, buchu and cardamoms sold at lower rates, and ordinary rhubarb, Sumatra gum benjamin, and jalap all were somewhat cheaper. On the other hand, gum arabic which can serve to some extent to replace the steadily dwindling supply of real Turkey gum, Russian anise, cascarrilla, and cascara sagrada are rather higher in price. Ipecacuanha advanced 1d. to 2d. per lb., and fenugreek seed and insect flinders are also firmer. Cumin and caraway seed have declined, and we publish reports which speak of a probable fall in the price of saffron. Opium is rather firmer, the first arrivals of the new crop not having turned out so well as had been expected. Oil of cloves and of citronella easier. Pine rhubarb brought extreme rates, but common lots sold very cheaply. In the chemical market the only changes calling for comment are the improvement in glycerine and a small decline in quicksilver, while there are reports of a possible change in the price of bromide of potassium. Among other articles, block gambier has advanced and shellac declined. Nutmeg and mace are dearer.

**RATHER UNUSUAL INCIDENT** served to break for a while the monotony of to-day's drug sales. It occurred during the sale of a parcel of ambergris, composed of nine lots, which a couple of gentlemen of Hebrew extraction and international origin endeavoured to secure. Whether accidentally or otherwise, the two competitors, who conveyed their bids in the usual manner by nods and winks, appeared to succeed for a moment in confusing the selling broker about the lots secured by each respective purchaser, and they continued their bidding in this manner until Mr. Figgis, who occupied the pulpit, found himself compelled to call them to order rather sharply, and to give one of them to understand, in terms which for plainness left nothing to be desired, that he should decline to accept any further bids from that quarter unless plainly uttered by word of mouth. With an emphasis which must have been very galling to the person thus rebuked, Mr. Figgis desired this buyer to understand that he wished to avoid any "mistakes" in his dealings with him, and that his jokes were rather out of place while serious business was being transacted. Mr. Figgis's observations seemed to give general satisfaction, and if the person admonished happens to have overheard the comments freely passed upon his peculiar behaviour in all parts of the room, it will possibly have the effect of rendering him less prone in future to indulge in the playful tricks and incessant gabble which might endear him to a juvenile audience, but have made him somewhat of a nuisance at the drug auctions.

**TARIFF REFORM IN THE UNITED STATES.**—On the 21st inst. the Mills Tariff Bill was accepted by the American House of Representatives by 162 to 149 votes. The measure was then passed on to the Senate, where it will in all probability be shelved pending the Presidential election in November. The average Customs duty on chemicals is reduced, through Mr. Mills's Bill, from \$32.87 to \$28.17.

**CIDS.**—Business in Citric acid is very quiet indeed, at 1½d. per lb. on the spot; although lemon-juice has further advanced, and is now quoted at the parity of 22l. 5s. f.o.b.

Tartaric, dull, English at 1s. 6d., and foreign at 1s. 5½d. Oxalic acid neglected at 3d. to 3½d. per lb.

**ALOES.**—Of 61 cases Cape aloes offered at to-day's auctions 56 packages were sold at prices falling a little below those paid recently. Good bright hard, a trifle drossy, realised from 20s. 6d. to 21s. per cwt.; more drossy and partly soft, from 17s. to 18s. per cwt.; and common qualities from 12s. 6d. to 14s. per cwt. Curaçao aloes were offered less plentifully, but the assortment was rather better in quality than recent averages; of 20 cases medium brown liver five were sold at 80s. per cwt., while for a parcel of common black cindery aloes, from 7s. 6d. to 14s. per cwt. was paid. 120 gourds of fair dark capey aloes are held at 35s. per cwt. Private advices from the West Indies state that the exports will be much reduced shortly, as it does not pay to collect the juice and ship it at the prices now realised in Europe. Dull hepatic Socotrine aloes in skins, sold at 77s. 6d. per cwt. Sour-flavoured red treacly Zanzibars in tins are held at 100s.

**AMBERGRIS.**—The recent scarcity of this article has apparently been overcome, for at to-day's auctions no less than 17 tins were offered. Of this quantity, nine tins (together 163 oz.) bold, partly yellow, grey, partly greenish ambergris, of somewhat weak odour, were sold at 64s. to 67s. per oz. The disposal of these lots gave rise to the incident reported elsewhere.

**ANISE.**—Russian anise is rather dearer in consequence, mainly, of the advance in the Russian exchange. Prices for dusty and stony to fine seed range from 19s. to 28s. per cwt. At the auctions to-day 21s. was named as the price for fair Russian. The Spanish crop promises to be a very abundant one this season. Prices have already given way a good deal, and unless French operators, who frequently spoil the market, commence to buy wildly and at any price, it is probable that Spanish anise will be very cheap in September. Fine new crop Italian anise is obtainable at 38s. to 40s. per cwt.

**ANNATTO** remains very cheap and neglected. Eight baskets (about 400 lbs.) good red Brazilian roll were sold (subject to approval) at the low price of 1s. per lb., and 10 barrels bright Ceylon seed at 2d. per lb., other lots being available at the same price.

**ARABOL.**—Under this name 9 packages of a sticky and evil-smelling substance claiming to be a substitute for gum arabic, and to be "perfectly adhesive and almost colourless on white paper," were placed in sale. A bid of 5s. per cwt. was not entertained, and the lot taken out. This "Arabol," is imported from New York, and bears a "sphinx" trade-mark.

**ARSENICUM IODIDE.**—Twenty-five 2-lb. bottles of red arsenic iodide, of no stated brand, were offered and bought in at 9s. 6d. per lb., 8s. being suggested. No offers were made.

**BEBERINE SULPHATE.**—Eleven packages (maker's name not stated) were offered, but, no buyer appearing, were bought in at 23s. per lb., 22s. being named as the price. As quinine (for which beberine is recommended as a substitute) can be had at practically the same figure, it is not likely that the parcel will find a buyer at the price named.

**BROMIDE OF POTASSIUM.**—Makers are still quoting from 1s. 5½d. to 1s. 6d. per lb., the former price being for very large lots only. A shipment of about 1½ tons American potassium bromide has just arrived here, and there is some rumour that certain of the European holders are contemplating the advisability of reducing their price to some slight extent to meet this competition, which is the first from that quarter since fully eighteen months. But it is objected that the agreement among the producers will preclude any of them reducing the price without the adherence of the others, and certain makers say that they at any rate contemplate no reduction. Meanwhile the market is firm at the prices quoted above.

**BUCHU.**—The new crop is now arriving, and as there is still a heavy stock of old leaves on hand holders seem anxious to clear off. Some good-coloured but stalky long leavess were shown, and 3d. per lb. was refused for these; but another lot of 30 bales (some 90 cwt.) yellowish round leaves sold very cheaply, at 1½d. to 1¾d. per lb.



**CALUMBA.**—Ordinary root is offering in considerable quantities, but is almost unsaleable. To-day 161 bags were withdrawn.

**CANARY SEED.**—Our market has been quiet but steady. Uncertainty prevails as to the movement of prices in the new campaign. So far everything looks promising in the principal producing districts, and the early samples of the new Turkish seed distinguish themselves by bright colour. Shipping of new seed will probably not begin for another month, and until considerable quantities are to hand, decisive movement of values is hardly to be looked for. Dutch seed continues in moderate demand at last rates; most of last year's seed has been disposed of, and for the little still held in the country more money is asked. Of English seed supplies are on a very small scale. In Spanish and Morocco seed very little is being sold. Of La Plata only a few hundred bags are now being landed and for sale. *Turkish* seed is quoted at 40s. to 43s.; cleaned, 45s. to 47s. per 464 lbs.; *Dutch*, 44s. to 48s.; *English*, 40s. to 44s.; *Morocco*, 48s. to 50s.; and *Spanish*, 52s. to 53s.

**CANTHARIDES.**—Of 4 cases *Russian*, one package of good, rather broken, bright flies, sold at 4s. 9d. per lb.; good *Chinese* cantharides are held at 1s. 3d. per lb., this price being paid for a fine bright parcel.

**CARAWAY SEED.**—The gathering of the crop in Holland is now proceeding, and the yield is said to be a rather large one, though not of very good quality. The price for fine *Dutch* now ranges from 24s. to 25s., while for *Russian* it is 22s. per cwt.

**CARDAMOMS.**—At to-day's auctions only a small supply (87 packages) was offered, but it proved more than sufficient for all requirements, and most parcels sold at 2d. to 3d. per lb. below valuation, although towards the end some Ceylon Malabars realised full prices. *Mysore*s, good pale heavy, sold at 1s. 4d. to 1s. 6d. per lb. (a very cheap parcel); medium long pale ditto, 1s. 4d.; small pale, 10d.; unclipped and split, mixed with husks, 9d. per lb. *Ceylon Malabar*, good pale round, 1s. 9d.; fair medium long mixed, 1s. 6d. to 1s. 7d.; rather small, but good round, 1s. 4d. to 1s. 5d.; small speckly and dull grey, 1s. to 1s. 3d.; split and husks, 6d. per lb. *Tellicherry*, good heavy brown, 1s. 1d. to 1s. 3d.; thin light skinny, 3½d. to 4½d. per lb. Ordinary to fair *Seed* sold at 1s. 1d. to 1s. 3d. per lb.

**CASCARA SAGRADA** dearer again, and very scarce, the London stock being said to amount to a few cwt. only. From 60s. to 65s. per cwt. is asked.

**CASCARILLA** remains scarce and brings very full prices, 30s. to 30s. 6d. per cwt. being paid to-day for thin greyish sea-damaged bark (20 bales at 1½ cwt. each).

**CINCHONA.**—Several lots of South American bark were sold to-day, from 1s. 4d. to 2s. 2d. per lb. being paid for good to fine fresh *Lova*, and 1s. to 1s. 3d. for fair *Huanoco* quill. Sixteen serons natural flat *Calisaya* sold well at 2s. 1d. to 2s. 2d. for sound, and 7d. to 1s. 8d. per lb. for damaged. Three cases (378 lbs.) flat red bark, slightly damaged and rather dusty, realised 3s. 6d. The exports of cinchona from Ceylon between October 1 and June 28 have been:—1887-88, 8,715,237 lbs.; 1886-87, 11,144,349 lbs., a deficiency of 2,429,000 lbs., which, according to recent cablegrams, had been fully maintained up to the middle of July. The receipts per railway at Colombo from October 1, 1887, to June 10, 1888, were 3,505 tons, against 4,560 tons during the same period last season.

**CIVET** remains extremely scarce, and 18s. per oz. is asked for good quality.

**COTO BARK.**—We hear it reported that a number of parcels of Bolivian coto are now ready for shipment in South America, and that lower prices are not unlikely to be accepted. In London, however, nothing is known of such consignments, but it would not take a very great quantity to thoroughly spoil the market, as the article is not one for which there exists any considerable outlet. At present 2s. 6d. to 2s. 9d. per lb. is asked by holders here, but for a round lot this price might, perhaps, be shaded.

**CUBEBS.**—Genuine berries are scarce and very dear. A parcel of 10 bales good small berries, slightly mixed with bold and rather stalky, were taken out. Eight bales stalky

bold grey berries sold at from 24l. 5s. to 24l. 15s. per cwt., bidding commencing at 20l.

**CUMIN SEED.**—New *Malta* seed offers at lower rates, and the tendency is still downward. From 38s. to 40s. per cwt. is now asked, according to quality. Fifteen bales *Bombay* seed sold without reserve at 21s., and 89 bales Syrian, imported *via* New York, at 15s. to 15s. 6d. per cwt.

**CUTCH.**—The latest sales include *Star B* brand at 31s. 6d., *Eagle* at 29s., *MM* in tablets at 30s. 6d., *RS* in tablets at 27s. 6d., and *RS* block at 27s. to 28s. per cwt.

**CUTTLE-FISH.**—Good quality still remains scarce and dear. There are several ordinary lots offering, but the stock here is gradually becoming concentrated.

**DRAGON'S BLOOD** still in good demand. Six cases finger in reed were offered, and sold at rather low rates, considering the scarcity of this variety, viz. 7l. per cwt.; but the quality was not particularly good, the fingers being rather broken and not very dry. Fourteen cases cakes and saucers were also sold—rather bricky and drossy, 5l. 5s. to 5l. 17s. 6d.; common at 65s. per cwt.

**ELATERIUM.**—The recent inquiry has apparently quite subsided, and though from 3s. 6d. to 3s. 10d. per oz. is still nominally asked, there is no disposition to buy.

**ERGOT OF RYE** does not improve, but holders do not seem disposed to give way further, and to-day 11½d. per lb. was refused for some dull *Spanish* ergot, similar to that sold at 1s. the other day.

**FENUGREEK SEED** firm and tending higher, the demand having improved in consequence, it is said, of the wet weather. Our stocks now appear quite exhausted, but fresh supplies are shortly due. *Mogadore* seed is held at 8s. 6d. to 9s. 6d. per lb., *Egyptian* at 6s. 6d. to 7s. per lb.

**GALANGAL.**—6½ cwt. sold at the last quotation, 7s. 6d. per cwt.

**GAMBIER** again dearer. On the spot business in block is reported up to 24s. 9d. per cwt., while for August-September shipment 22s. 9d. to 22s. 10½d. per cwt. has been paid.

**GENTIAN ROOT.**—Fair quality, a little thin, offers at 16s. per cwt.

**GLYCERINE.**—The German makers have recently been competing very severely, and prices fell considerably in consequence; but since yesterday the article is again looking up a little, and agents quote to-day from 63s. to 64s. per cwt. for double distilled s.g. 1.260. At the auctions 4 drums crude brown glycerine, imported from New York, were offered, but no bid was made for these, and they were bought in at 50s. per cwt. nominally.

**GUM ARABIC.**—At to-day's auctions a few parcels of good gum sold at extreme rates. Of 24 bales good frosty soft white *Mogadore*, rather bold mixed, and but slightly drossy, two lots sold at 9l. to 9l. 2s. 6d. per cwt., an advance of 7s. 6d. to 10s. per cwt. *Cape* gum also sold dear—fine small white, 16l. 10s.; good partly grey sorts, 10l. 2s. 6d. to 10l. 10s.; pale coarse sittings, 9l. 2s. 6d.; brown to dark drossy, 95s. down to 42s. 6d. per cwt.

**GUM BENJAMIN.**—Among the 204 cases offered at the auctions there was a very large proportion of *Siam* gum, which is held at 20l. 10s. for bold pale free almonis. Several lots of *Sumatra* gum sold at rather lower prices—8l. 10s. to 8l. 12s. 6d. for very good well-flavoured pale almondy seconds, somewhat false packed, and 6l. 10s. to 7l. 2s. 6d. for fair false packed of good flavour, but dull appearance (without reserve); *Palembang* good orange seconds brought 80s. per cwt.

**GUM KINO.**—No demand. Seventeen cases good bright gum were bought in at 32s. per cwt. Perhaps 30s. would buy.

**GUM MASTIC.**—One 1-cwt. lot of good pale yellow tears sold at 2s. 2d. per lb.

**GUM MYRRH.**—Without much demand. One case of good selected pale sold at 8l. 2s. 6d. per cwt. Sorts are worth from 90s. to 92s. 6d. per cwt. Good coarse sittings bought in at 87s. 6d. per cwt.

**GUM OPOPONAX.**—One tin of gum called by this name was offered for sale. The gum was very dark and mixed with



ood and rubbish, and only 1s. 6d. per lb. was offered, but refused.

**HEMIDESMUS INDICUS.**—Three bales stout dark root, fairavour, sold at 5½d. per lb.

**HONEY.**—Several lots of *Jamaica* honey were offered to-day, and sold partly at pretty cheap rates, good pale brown liquid 1s. 6d. to 26s. 6d., darker at 21s. to 23s. 6d., and dull brown 20s. per cwt. Per steamer *Aconagua* 1,322 barrels honey, arrived this week from Valparaiso.

**INSECT FLOWERS.**—In Trieste the prices are again higher, the latest quotations being 223s. per cwt c.i.f. for closed, and 8s. c.i.f. for open flowers. A recent report states that the new crop is now estimated at fully 25 per cent. below that of last year, and as the stock left at Trieste of the old crop was extremely small, and buyers are nearly everywhere very fully provided, it is not at all probable that prices will give way in the near future.

**IODINE** firm but unchanged at 9d. per oz. for *Crude*, 6s. 6d. per lb. for *Resublimed*, and 11s. per lb. for *Potassium Iodide*.

**IPECACUANHA.**—At to-day's auctions 33 packages were offered, and nearly all sold at a slight advance (1d. to 2d. per lb.) with a good competition. For fairly good stout unadulterated root, sound, 6s. 1d. to 6s. 4d. per lb. was paid, and from 6s. to 6s. 3d. per lb. for sea-damaged lots. Five cases of *Ipecacuanha*, upon which we commented some months ago, when it was first brought into this country, were again offered, and sold at much lower prices than the preceding lot. There was about 1 ton of the stuff, and from 8d. to 1½d. per lb. was paid for it, the broker announcing (a rather unusual proceeding in such cases) that several lots had been bought by Mr. Hasslauer.

**JALAP.**—A consignment of 35 packages sold rather cheaply at 5½d. to 6d. per lb. for sound heavy *Vera Cruz*, mixed sizes, at the same price for slightly sea-damaged and wormy toers.

**MERCURIALS** are rather easier, in sympathy with quicksilver, and would now be obtainable at from 1d. to 2d. per lb. below recent quotations.

**MORPHIA** firm at 4s. per oz.

**MUSK.**—Very little disposition to buy was shown to-day, and did the principal holder seem inclined to meet the market; hardly all the best lots were consequently bought in, 4 cades very fine medium to bold well trimmed blue-skinned *Amiquin* pods, first pile, at 85s. per oz. A few ounces exceptionally fine third pile blue-skin and underskin, well trimmed, sold at 59s. per oz. *Yunnan* pods, small to bold hard dull sunny, are held at 42s. per oz. Among other lots sold were bottles "grain musk," offered without reserve, and disposed of at 1s. 6d. per oz.

**MUSK SEED.**—Thirty-two bales ordinary Java seed were bought in at 4½d. per lb., while 2 bales weak flavoured sold at 3d. per lb.

**NUX VOMICA.**—Forty bags good pale silky seed from Bombay were shown, and bought in at 14s. 6d. per cwt., 1s. per cwt. being solicited.

**OIL (CASTOR)** very quiet; 180 cases were all bought in, at Calcutta at 4½d., good palish mixed Coconada at 2½d. per lb.

**OILS (ESSENTIAL).**—*Star anise* quiet at 6s. 5d. per lb.; no business has transpired recently. *Clove* oil lower, in sympathy with the spice, at 4s. 3d. per lb. *Cinnamon-leaf* oil neglected at 1½d. per oz. Of 91 cases *Citronella* oil offered for sale to-day, 10 sold "without reserve" at ½d. to ¾d. per oz., but holders refused to go on at this figure, which marks a decline of ¾d. per oz. Twenty cases "*Grass*" oil from Bombay also sold at ½d. to ¾d. per oz. French *lavender* is scarce and dear, but there is no change in price. The Mitcham crop this year is badly in want of sunshine. The abundant rains have caused the plants to shoot up to a height of two feet, but the herb seems very deficient in oil, and even if bright sunshine should prevail from now until the gathering time, it is doubtful whether the crop will turn out well. The herb is just commencing to flower, and the cutting time will have arrived about the middle of August. The stock of last year's *lavender* is getting very low, and from

36s. to 37s. per lb. is now quoted for the best oil. *Lemon-grass* dull at 1½d. per oz. nearest quotable price. Fourteen cases oil of *Limes* from Dominica are held at 3s. 6d. per lb. The price of the new *Otto of rose* has not yet been fixed, but it is said that it will more probably be advanced than reduced. *Patchouly* oil.—"Fisher's" brand is now held at 2s. per oz. American *Peppermint* (HGH) steady at 12s. 6d. here, which is below the American price. The Mitcham crop is backward, and the plants, like the *lavender*, badly require sunshine; it is not likely that cutting will commence before the middle of August. It is said that the acreage under *peppermint* cultivation is only two-thirds of last season's, many plants having been destroyed by frost last winter. Last year's oil was quite exceptionally fine in quality, better so than can be looked for this season. Finest oil of the last crop is held at 26s. to 27s. 6d. per lb., but sales of other qualities have been made at lower rates lately. Of *Ylang-ylang*, 16 bottles were sold to-day at 3s. 11d. to 5s. 6d. per oz., "without reserve."

**OIL (OLIVE).**—No change, the market remaining quiet but firm, at 33l. 10s. for *Mogadore*, and 34l. to 35l. nominally for *Sicilian* oil. *Spanish* oil is quoted at 37l. At to-day's auctions four cases of eight 11-lb. tins of French olive oil, flavoured with cassia and violet oil, were sold "without reserve" at 5½d. per lb.

**OPIUM.**—We hear that to-day the first consignment of this year's crop arrived in London. There are only 10 cases, but larger lots are expected very soon. The opium is of the *Guvvé* variety (so-called "Constantinople pats"), and is described as of common chaffy quality. It is held at 8s. per lb., but said to be dear at that price compared with the old opium which can be bought at 9s. per lb. The market is still quiet, but has assumed a somewhat firmer tone. A fair business has been done in fine *Druggists'* opium at 9s. per lb.; seconds are not offering. Retail sales of *Persian* opium at 11s. 6d. per lb. are also reported.

On July 6 last the stock of old opium at Smyrna, the interior of Asia Minor, Salonica, and Constantinople was computed at about 800 cases, while the arrivals of new opium at Smyrna on July 13 were given at over 600 cases, against 77 and 321 respectively at the corresponding dates of 1887 and 1886. The harvest in the Salonica district is finished, the weather throughout the collecting period being favourable. Fully 600 cases have been gathered, and the drug is slowly arriving on the central market. Some business in new crop opium has been done in Smyrna by China and Java firms. The prices paid were considerably higher than appeared warranted by the largeness of the crop, viz., 6s. 9d. per lb. for *Yerli* talequale, 6s. 6d. per lb. for common opium talequale, and 7s. 3d. for visited ditto. The explanation of these comparatively advanced rates is that the buyers were bound by contract to deliver, but it seems that no further business would be possible on the same basis. From the interior of Asia Minor large quantities are now reported on the way to the shipping centres, and a heavy accumulation of new opium is expected at Smyrna. The Persian crop will, it is now thought, amount to 5,000 cases, of which four-fifths have already been received.

**ORRIS ROOT.**—For 7 serons dull brown *Mogadore* orris 18s. per cwt. was refused.

**QUASSIA.**—For 50 cwts. of fair quassia chips, 10s. 6d. per cwt. is required.

**QUICKSILVER.**—The importers have reduced their price to 7l. 7s. 6d., and second-hand holders are now quoting 7l. 4s.

**QUININE** has had a very uneventful week. There are buyers for German in bulk (B&S) at 1s. 4d., but holders require 1s. 4½d. per oz., and no business of any importance has resulted. The quotations for *English* and *French* quinine are unchanged.

**RHUBARB.**—The supplies offered were again large—viz., 156 cases. A considerable proportion of this was sold, medium and common qualities, at very low rates; but for a small parcel of fine root fancy prices were paid. *Shensi* root, fine bold orange coat, good appearance, flat, ¾ pink fracture, sold at from 3s. 8d. to 4s. 3d. per lb.; medium flat, rather rough in coat, at 1s. 4d.; small to medium pale, round, ¼ dark fracture, at 11½d.; rough flat, pale in coat, ½ pinky grey fracture, at 9d. to 9½d. per lb. *Canton*, medium to bold fair coat flat, 1s. 2d. to 1s. 3d. *High-dried*, medium to bold,



half-dark fracture, is held at  $8\frac{1}{2}d.$  per lb. Small Shensi druggists' root, for trimming, sold at  $1s. 6d.$  to  $1s. 7d.$  per lb.

**SAFFRON.**—The market here remains firm, and the previous high quotations for the best *Valencia* saffron are said to be maintained. In direct contradiction with the views prevailing on this market are the following excerpts from a letter which we have received from a *Valencia* correspondent who is thoroughly well informed of the market. "The coming saffron crop promises very well indeed, both as regards quality and quantity. Much, of course, still depends upon the weather which will prevail during the short collecting period, but even if this should turn out unfavourable, it would not be able to neutralise the good effects of the rains which came so opportunely early in the spring, and has made the bulbs in splendid condition." At present the prices are falling, slowly, it is true, but steadily, and low prices are expected to rule during the autumn.

**SARSAPARILLA.**—Twenty-two bales damaged *Lima Jamaica* were bought in at  $1s. 2d.$  per lb., while  $10d.$  per lb. was obtained for one lot out of a parcel of 33 bales dull and damaged *Guayaquil*.

**SHIELLAC.**—Very little business has been done this week. At the weekly auctions 550 cases were offered, of which 350 sold at slightly lower rates for *second orange*, and  $6d.$  decline on *garnet lac*, which sold at  $34s. 6d.$  to  $35s.$  per cwt. for good free AC. *Second orange*, standard (TN) on the spot is held at  $43s. 6d.$  per cwt. on the spot, and at  $43s. 6d.$  per cwt. c.i.f. for forward shipment.

**TAMARINDS.**—For 23 barrels fresh *Antigua*  $19s.$  was refused,  $20s.$  being the price. At the latter figure 22 barrels from *Dominica* were sold. Six packages old *Tobago* brought from  $14s. 6d.$  to  $18s.$  per cwt. Fair *East Indian* (Calcutta) are held at  $15s.$  per cwt.

**TEA.**—The China market has been flooded with arrivals this week, and dealers have had more tea offering than they could taste and value. There has not, however, been any great pressure to sell in public sale, and for most kinds we have no marked decline to note. Useful common Monings, selling from  $6d.$  to  $6\frac{1}{2}d.$ , show fair value, and in some cases are  $\frac{1}{2}d.$  to  $1d.$  under counterpart prices of recent sales; but all Pekoe-flavoured teas are much wanted and well competed for, both privately and in the auction room. Fine Keemuns must be reported weak, but they are still far too high, and are not likely to go at all freely into consumption till they are pence cheaper. New Kaisows are hard to sell, and at one 3 o'clock sale this week a number of parcels of Pecco Congou sold at a heavy decline of  $2d.$  to  $3d.$  per lb. on prices of the first few days. Pure liquoring Newmakes are much wanted, and anything with quality fetches extreme rates. New Capers are quiet, selling from  $5\frac{1}{2}d.$  up in public sale. Assams, new season's, are firm and well competed for, but some useful teas may be picked up between  $9d.$  and  $1s.$ , provided the liquoring teas are avoided. Fine Darjeelings bring extreme prices. Ceylons are firm at the recent slight advance, and teas with quality are a little dearer. Very good teas are, however, obtainable at  $10d.$  to  $1s.$ , as in Indians, and these sorts are not likely to be far wrong to buy. In Javas, Souchongs fetch  $6\frac{1}{2}d.$  to  $6\frac{3}{4}d.$ , Pekoe Souchong  $7d.$  to  $7\frac{1}{4}d.$ , Pekoe  $8\frac{1}{2}d.$ , Orange Pekoe  $1s. 2\frac{1}{4}d.$

**WAX (BEES').**—Full prices were paid for new *Jamaica* wax, of which rather a large quantity was put up for sale. Fine pale yellow realised  $7l. 2s. 6d.$ ; good orange,  $5l. 17s. 6d.$  to  $6l.$ ; red,  $5l. 12s. 6d.$ ; brown,  $5l. 2s. 6d.$ ; dark grey,  $9s. 6d.$  per cwt.; good pale *Madagascar* sold at  $90s.$  per cwt.

## THE AMERICAN MARKETS.

NEW YORK, July 14.

THE market still shows considerable firmness in the articles that advanced the latter part of last week, and there is a considerable movement in goods for consuming purposes. There has been a decidedly speculative disposition, brought about by the sudden advance in quinine, large lots of which changed hands here on the information contained in cable advices and every appearance of a boom at hand, but things have settled down again and have been very steady for the past few days. It is the impression that outside this city

stocks have been allowed to run very low during the past season, and that in consequence there will be a good demand for goods and a brisker trade the next month or two than for some time past, notwithstanding the depressing effect which the political campaign now at hand is generally supposed to have on business.

**ACID (CITRIC)** is quiet and unchanged. *Foreign* is obtainable at  $50c.$  less duty  $10c.$  per lb. ( $1s. 8d.$ ), and *Domestic* at the same figures, though the manufacturers are not offering.

**BALSAM COPAIBA** continues as about last quoted,  $46c.$  for *Central American*; other grades are without change.

**CANTHARIDES** are low in comparison with quotations from abroad, equal to  $60c.$  for *Chinese* ( $2s. 8d.$ ), and still they are to be had here at  $42\frac{1}{2}c.$  ( $1s. 9\frac{1}{2}d.$ ); *Russian*,  $135c.$  ( $5s. 7\frac{1}{2}d.$ ).

**CHAMOMILES.**—New *German*, 1888, are arriving more freely, and obtainable at  $26c.$  per lb. ( $1s. 1d.$ ); the tendency of the market is downward.

**CUBEBS** are strong and firm at late advances,  $\$1.75$  ( $7s. 3\frac{1}{2}d.$ ) for sifted and stemless, and  $\$1.50$  ( $6s. 3d.$ ) for stemmy.

**INSECT POWDER** is still in active demand at previous prices.

**LYCOPODIUM**, which had been somewhat neglected, has suddenly stocked up, and is held at  $38c.$  to  $40c.$  ( $1s. 7d.$  to  $1s. 8d.$ ) owing to cable advices from abroad of advances equal to  $39c.$  here. The demand from the West is unusually brisk and a further advance is probable.

**OIL (COD-LIVER).**—*Norwegian* is tending upwards; some holders have advanced their prices to  $\$25$  and  $\$28$ , duty 25 per cent. ( $82s. 4d.$  to  $93s. 4d.$ ); these are private brands, while good oil is still obtainable at  $\$21$  (about  $70s.$ ).

**OILS (ESSENTIAL).**—*Peppermint* H.G.H. has advanced to  $\$3$  ( $12s. 6d.$ ) per case, and there are strong ideas of much higher prices for this as well as other grades, on account of scarcity somewhat and speculation. New York State is held at  $\$2.30$  ( $9s. 7d.$ ), and Western,  $\$2.15$  ( $9s.$ ); though these latter figures can be shaded considerably for good round lots. *Sassafras* is somewhat scarce at the moment, and in demand at  $48c.$  ( $2s.$ ). *Wintergreen* has advanced to  $\$1.90$  ( $7s. 11d.$ ), though this figure could be shaded. *Pennyroyal* advanced to  $90c.$  ( $3s. 9d.$ ).

**OPIUM** has been quite firm for the past week at  $\$2.70$  for single cases,  $\$1.70$  in bond ( $7s.$ ), and  $\$2.65$ – $\$1.65$  in bond for lots, with a fair jobbing demand.

**QUICKSILVER** is in good request in a small way, and the price remains firm at  $56c.$  ( $2s. 4d.$ ).

**QUININE**, *Foreign*, advanced to  $35c.$  ( $1s. 5\frac{1}{2}d.$ ) for all brands at which they have been held up to the present with the exception of two, not so well known, which latter within the last two days can be had at  $34c.$ , while large lots were taken up the latter part of last week at from  $31c.$  up to  $34c.$ , some 50,000 oz. or more, and considerable on out of town orders. There is a disposition later to accept a trifle lower figure on the part of some second hands now that the excitement has worn off, and the demand slackened off somewhat. They acknowledge, however, that the price ought to be higher here, since the advices of the Amsterdam bark sales of yesterday were made at 10 per cent. higher prices.

**ROOTS.**—*Ipecacuanha* is lower, and obtainable at  $150c.$  to  $160c.$  ( $6s. 3d.$  to  $6s. 8d.$ ); *Senega*, Southern is held at  $42c.$  ( $1s. 8d.$ ), and Western,  $35c.$  ( $1s. 5\frac{1}{2}d.$ ); *Golden Seal* continues at  $35c.$  to  $40c.$  ( $1s. 5\frac{1}{2}d.$  to  $1s. 8d.$ ); *Ginseng*,  $\$2$  to  $\$2.15$ . *Serpentaria*,  $22c.$  ( $11d.$ ); *Pink*,  $42c.$  ( $1s. 9d.$ ).

## CHEMICALS IN THE NORTH OF ENGLAND.

OUR chemical market as a whole has not responded to the general improvement in trade, as proved by the Board of Trade returns, and by the advance in freights, and demand for shipping. The market for heavy chemicals is suffering from excess of production, and until this is remedied by the reduction of output, prices will be weak or even continue to decline. Efforts are now being made to come to some understanding amongst the makers of caustic soda, and if successful, the position of this chemical (the most depressed of all)



will materially improved. As regards the new Tariff Bill, it is given up here as being political rather than commercial, and that in any case it cannot become law in any form during the present year.

**AlDS.**—*Tartaric* has been steady here at 1s. 5 $\frac{1}{4}$ d., but the demand is not active, and the low temperature affects its consumption, as well as that of *Citric*, which is quiet at 1s. 7d. to 1 7 $\frac{1}{4}$ d. per lb. *Oxalic* has been active at 3d., and some holders are now asking higher prices. In *Boracic*, sales have been made on the spot at 25s., and a large business on private terms to the end of the year. The market is now much firmer, and an early advance is probable.

**AMMONIA SALTS.**—The enquiry for *Sal ammoniac* continues, and the shipments have much improved, prices closing firm at 34s. and 32s. per cwt. for first and second quality. *Muriate* also has been in fair request at 23l. to 30l. per ton, according to colour and strength. *Carbonate* has met with a steady demand at 3d., and the position of *Sulphate* has improved, 11l. 12s. 6d. being now asked on the spot and 12l. for forward delivery.

**TEACHING POWDER**, after a somewhat easier tone, has hardened and closes firmly at 7l. 5s. on rails, and 7l. 7s. 6d. f.o. It is reported that American orders are coming in, and that some have been placed. This feature may have an improved effect upon values.

**BRAX.**—After a somewhat dull market this article has improved, the export trade being better and the home consumption larger. Makers are firm at 30l. for crystals, and 11l. per ton for *Powdered*. Some second-hand lots are, however, offering under these figures. *Californian* is scarce and firm at 30l. per ton.

**FRASH SALTS.**—*Yellow Prussiate* continues to decline, and the nearest value to day is 6 $\frac{3}{4}$ d. to 6 $\frac{1}{2}$ d. per lb. *Bichromate* is very firm at 4 $\frac{1}{2}$ d., but *Chlorate* has been very dull, and supplies being greatly in excess of demand, the market is flat at 2 $\frac{1}{2}$  to 5 $\frac{1}{4}$ d. per lb.

# BRITISH PHARMACEUTICAL EXPORTS.

TABLE A.

Value of the exports from the United Kingdom of drugs and medicinal preparations of British origin :—

To	1883	1884	1885	1886	1887
Germany .. .. .	23,876	18,837	17,346	17,058	35,305
Belgium .. .. .	14,068	14,666	17,185	15,477	13,698
France .. .. .	21,935	19,678	18,120	17,271	26,017
Portugal .. .. .	12,002	15,549	11,722	10,584	10,112
Italy .. .. .	15,947	11,574	11,187	10,504	12,194
Spain .. .. .	18,603	17,575	13,061	15,273	16,924
United States .. .. .	66,077	35,674	33,436	26,782	40,673
Spanish West Indies .. .. .	11,871	10,327	10,632	11,733	13,822
Dutch Guiana .. .. .	1,872	1,841	409	406	512
Mexico .. .. .	2,754	5,078	4,424	3,148	5,673
Central America .. .. .	3,581	6,201	7,343	7,276	7,256
United States of Colombia .. .. .	3,635	6,974	6,699	7,887	10,714
Peru .. .. .	3,583	8,403	5,668	10,834	5,979
Chile .. .. .	9,672	14,838	9,262	9,670	10,554
Brazil .. .. .	43,845	40,940	46,179	53,135	48,216
Uruguay .. .. .	5,588	6,457	5, 78	7,366	8,524
Argentine Republic .. .. .	18,927	18,136	18,388	24,708	24,865
Channel Islands .. .. .	2,893	2,534	3,518	4,817	5,812
Siberia .. .. .	2,133	2,907	2,193	2,238	2,384
Mal .. .. .	2,960	4,427	4,467	3,557	3,912
Gold Coast .. .. .	1,588	2,172	1,740	1,645	1,437
St. Helena .. .. .	242	235	803	652	661
Bay of Good Hope .. .. .	33,182	30,789	29,315	25,032	32,920
Natal .. .. .	10,506	12,184	11,682	11,234	15,362
Mauritius .. .. .	6,474	7,985	6,661	5,523	5,211
British India .. .. .	164,959	135,279	136,941	116,187	121,541
Ceylon .. .. .	8,825	7,831	7,113	7,508	8,649
West Australia .. .. .	4,050	3,384	3,487	4,206	3,496
Southern .. .. .	27,111	28,169	21,960	20,870	17,476
Victoria .. .. .	61,592	58,994	62,192	64,711	63,738
New South Wales .. .. .	79,784	98,004	9,445	76,783	76,081
Tasmania .. .. .	29,956	29,586	33,325	22,723	20,540
New Zealand .. .. .	6,811	4,297	4,075	3,852	3,702
Canada .. .. .	46,697	34,713	44,868	46,097	40,126
Japan .. .. .	31,759	44,103	29,336	34,075	36,171
Neolland .. .. .	2,091	4,829	3,378	2,869	2,893
British West India Islands .. .. .	506	619	511	864	803
British Guiana .. .. .	32,875	32,241	23,927	24,524	29,587
British Honduras .. .. .	15,642	19,493	11,69	11,153	10,742
British Honduras .. .. .	1,364	1,414	1,424	1,038	751

TABLE B.

Value of the exports from the United Kingdom of drugs (unenumerated) of foreign and colonial origin :—

To	1883	1884	1885	1886	1887
Sweden .. .. .	£ 12,686	£ 11,486	£ 12,026	£ 6,253	£ 6,573
Denmark .. .. .	5,778	7,014	6,441	5,451	4,707
Germany .. .. .	72,926	68,058	67,678	87,352	76,341
Belgium .. .. .	17,251	20,021	14,462	12,562	11,263
France .. .. .	44,084	26,297	29,785	31,891	27,909
Spanish West Indies .. .. .	11,672	36,303	36,416	36,106	24,863
Italy .. .. .	9,853	8,718	12,114	8,824	11,597
Greece .. .. .	2,434	2,490	2,173	2,222	4,585
Turkey (Europe) .. .. .	2,542	1,815	1,440	1,772	1,061
Japan .. .. .	14,328	13,079	14,181	10,256	6,794
United States .. .. .	116,281	180,262	130,334	104,686	141,524
United States of Colombia .. .. .	814	833	259	1,667	7,408
Peru .. .. .	98,271	109,705	69,467	48,962	67,786
Argentine Republic .. .. .	3,483	4,409	3,143	4,014	2,432
British India .. .. .	8,905	12,819	11,193	13,714	19,159
Victoria .. .. .	5,406	4,757	4,604	5,481	5,420
New South Wales .. .. .	4,551	5,638	4,915	6,540	3,338

TABLE C.

Value of the exports from the United Kingdom of chemical products and preparations of British origin and manufacture :—

To	1883	1884	1885	1886	1887
Russia .. .. .	£ 81,874	£ 73,478	£ 88,073	£ 63,267	£ 78,206
Sweden .. .. .	54,9 7	61,145	59,845	69,022	55,223
Norway .. .. .	8, 6 8	7,921	11,363	11,587	11,086
Germany .. .. .	247,222	291,421	223,652	208,261	246,194
Holland .. .. .	282,292	286,331	241,096	207,855	190,538
Belgium .. .. .	147,664	109,659	75,819	94,351	94,111
France .. .. .	251,537	290,270	207,113	277,655	388,407
Portugal .. .. .	35,894	31,518	31,524	28,993	22,215
Madeira .. .. .	699	1,073	1,317	1,316	1,279
Spain .. .. .	56,012	62,214	43,319	45,932	46,171
Italy .. .. .	66,033	70,362	57,857	57,978	73,450
Austria .. .. .	8,083	9,900	6,595	8,248	3,719
Bulgaria .. .. .	976	976	1,119	992	873
Turkey (Europe) .. .. .	7,773	8,700	8,856	6,694	7,786
(Asia) .. .. .	5,796	7,048	6,419	5,165	4,802
Egypt .. .. .	6,199	7,294	6,933	5,423	5,810
China (including Hongkong and Macao) .. .. .	15,611	12,220	20,901	13,328	16,145
Japan .. .. .	11,860	20,288	23,069	42,217	61,5 6
United States .. .. .	466,170	354,736	396,618	400,476	399,010
Mexico .. .. .	8,235	5,894	9,786	14,377	20,750
Argentine Republic .. .. .	13,066	18,294	27,298	38,524	35,284
Channel Islands .. .. .	3,750	8,104	10,751	6,211	3,074
Cape of Good Hope .. .. .	8,746	19,033	21,029	17,964	33,500
Natal .. .. .	1,947	4,499	7,812	5,768	10,704
Mauritius .. .. .	2,203	2,078	2,001	1,432	1,655
British India .. .. .	81,792	84,587	84,364	81,994	106,211
Southern Australia .. .. .	9,314	10,238	12,414	8,887	11,052
Victoria .. .. .	34,536	43,916	46,168	41,967	49,301
New South Wales .. .. .	26,263	34,442	39,098	36,927	39,438
New Zealand .. .. .	26,603	25,279	40,563	33,878	35,012
Canada .. .. .	39,597	36,807	35,512	37,799	37,803
British Guiana .. .. .	2,667	3,369	3,596	2,838	3,653
Falkland Islands .. .. .	3,083	1,481	2,015	2,155	1,6 9

TABLE D.

Value of the exports from the United Kingdom of chemical manufactures and products of foreign origin :—

To	1883	1884	1885	1886	1887
Russia (Southern Ports) .. .. .	£ 1,870	£ 1,575	£ 3,507	£ 9,735	£ 7,3 2
Germany .. .. .	35,438	15,494	39,556	11,577	33,8 8
France .. .. .	16,360	15,896	15,828	15,376	20,8 3
Italy .. .. .	7,030	10,697	9,072	5,199	12,098
Japan .. .. .	3,140	3,937	4,898	9,117	10,724
United States .. .. .	185,402	86,100	103,737	37,823	113,944
Victoria .. .. .	1,931	3,972	6,398	7,567	8,083
New South Wales .. .. .	7,101	9,076	9,201	4,888	7,816
New Zealand .. .. .	5,229	6,702	6,212	5,681	8,459
Canada .. .. .	10,467	14,458	7,836	7,925	9,665





### Memoranda for Correspondents.

1. *ways send your proper name and address: we do not publish them unless you wish.*

*Write on one side of the paper only; write early; and devote a separate sheet of paper to each query if you ask more than one, or if you are writing about other matters at the same time.*

*If you send us newspapers, please mark what you wish us to read.*

*Ask us anything of pharmaceutical interest: we shall do our best to reply.*

*Before writing for formulae consult the last volume, if you have it.*

*Letters, queries, &c., not noticed in this issue will, if possible, be attended to next week.*

### Conservatism in Pharmacy.

SIR,—There is self-satisfaction in these very words. It is the phrase of the "have-gots" who do not need to trouble themselves to keep up to the times, but who are sure of a fat living provided only that they do not have to compete with some live man in the same line of business.

It is all very well to sell pills by the inch covered with tin-foil to people who are satisfied with it, but the world is growing in its demand for advancement in everything, and not many of the rising generation would submit to receiving their medicine by the inch and rolling it into pills themselves after they had learned of the newer and better and more agreeable methods.

Some chemists appear to wish to ignore the fact that we are "in trade." Can it be that they have caught contempt for all useful occupations from the classes who "toil not, neither do they spin," but who appear to be the favoured children of fortune.

But let us not forget that utility is the test of true dignity and nobility, and that the most useful citizen, even though he be a chemist, is the best one of a community.

Our occupation is eminently useful and honourable; we are the co-labourers with the professors of the healing art, and no occupation could be more useful than that which assists nature to be free from the "ills that flesh is heir to." If we would add dignity and lustre to it we must serve the public according to the best of our ability. We must not put our "light under a bushel," but "let it shine" by giving to the public the best service of which we are capable in supplying them with the best medicines obtainable, and giving them the benefit of every progress of our profession, art, and trade—for it is all three.

If we can make better goods than we can buy let us not be too lazy to make them, but in cases where we can buy better than we can make let us not turn our light into darkness by substituting the inferior for the superior, thus denying to our customer the benefit of any advancements in our art. That an article is good or an improvement should be sufficient to commend it in our eyes, and to lead us at once to introduce it to those most concerned to know of it. In the case of new drugs, remedies, or preparations, the medical profession should be informed of their arrival and their inspection invited.

It is not my province to write of the "whole duty of chemists," but as the subject has been broached, to write of a policy which obviously is both right and expedient, and which, faithfully followed, must lead to a permanent success, for the doctors and public will soon learn what chemists are live, wide-awake, and up to the times, giving them the best of everything, and we may be sure that a grateful profession and public will not grudge "the labourer . . . his hire."

A word on cutting. While in some instances it may be advisable to sell Epsom salts, sulphur, quinine, and the most staple drugs at a low rate of profit, or even at about cost, to compete with cutters when necessary, also to cut the price of some patents, yet I believe that 95 per cent. of chemists will find it wholly unnecessary to cut the prices of other than the staple drugs and patents, except in special cases, which

should be the exception and not the rule. On pharmaceutical goods, as prescribed by doctors, and recommended by chemists, the full prices can, in nearly every instance, be maintained and often exceeded with advantage to the customer, who will receive much more benefit from a 1s. 6d. or 2s. parcel of medicine than from one which costs him but 6d. or 1s. Where pharmaceutical preparations are prescribed the chemist's label should take the place of the original label if the doctor gives directions for use.

Yours, for go-ahead trade and pharmacy on practical business lines,

MERCURIUS. (74/99.)

### The Just Demands of the Trade.

SIR,—Your correspondent "Potass. Iodid." gives a series of six questions which he thinks may be used as a platform for a general agitation. Allow me to express in a few words the ideas which rise in my mind on reading his letter.

(1) Sale of Poisons. Do chemists show forth the importance of this monopoly, by careful labelling and registration of poisons? Are they ready, as *custodes toxicorum*, to prosecute the illegal sale by botanists, oil and colour men, store-keepers and others? I know a Lancashire town in which three open drug-shops are kept—not by chemists—in which poisons are sold by some means or other.

(2) Dispensing by Doctors and Surgeons. Here is another profession, almost as needy and overdone as our own. How can we attack it? A social revolution must come first of all. We cannot turn the College of Surgeons into consulting physicians.

(3) Patent Medicines. Have we not to thank ourselves for the immense growth of this branch? Now that it has assumed uncontrollable proportions, what can we do but educate the public? Even Governmental registration and licensing of formulae will not meet the case. Nothing but a stringent law to place the sale of all medicinal articles in medical and pharmaceutical hands will touch the subject. And if this be so, why is the bulk of the trade still outside the Pharmaceutical Society?

(4) Patent Medicine Stamp Act. No increased stamp duties to non-chemists will affect the case. Large profits will stand large duties.

(5) Co-operation in Supply. We may make small rings, but cannot make drugs and chemicals out of air. Markets will always be open to large buyers; and the ultimate result of trying to buy up produce for the exclusive use of a section of the community will be the higher cost price of the goods.

(6) Early Closing. At the risk of appearing hard-hearted, I say, *cui bono*? I have very carefully watched the effect of this movement on the young men, and am of opinion that it has done us more harm than good on the whole. Some, perhaps many, make good use of their leisure; but the majority lose thereby the taste for study and for real improvement. Masters can always provide time for recreation and study, if really anxious so to do; but if we are to be good and ready servants of the public, we must be at the beck and call of the people, and my own experience is that an open shop is preferable to innumerable races downstairs and through passages to a side door. Of course, I hold with general early closing, when the whole neighbourhood carries it out honestly.

I maintain, sir, that the Pharmaceutical Society is our natural and *de facto* leader. We can only act through it. Let the fiasco of the "United Society" be our warning. With the whole trade supporting our leaders, we may see a change for the better.

Yours truly,

HEDER. (99/24.)

SIR,—I, too, as evidently many more of your readers, have studied pharmaceutical interests, and how to remedy the evils spoken of by "A. D. Major." At one time I was a great supporter of everything said, done, or proposed by our brethren who sat in solemn conclave about Bloomsbury Square, a subscriber and regular reader of their weekly organ, a voter, to boot, when occasion required, and, in fact, classed myself as a model pharmacist, so far as upholding the dignity of the Society was concerned. I even went the length of taking the Pharmaceutical Conference degree (?), not out of any charity, as you may suppose, but for my own



ication. Since then my vista has been considerably enlarged and my opinions entirely altered towards the Pharmaceutical Society. Can your correspondent ask himself the following queries and give satisfactory replies without finding the shoe pinches?

1. What benefits have chemists derived within the last decade which can be credited to the councils and officers of the Society during that period?

2. Has there been any genuine attempt made to abolish Patent Medicine-stamp Acts, whereby, under cover of a Government stamp, poisons are allowed to be sold broadcast over the land, or to forbid the sale of arsenic, vitriol, oxalic acid, &c., by druggists (generally known as wholesale chemists, but who have no real claim to the name of such), dispensing by stores, limited liability companies, &c.; or in the sale of such common-place drugs as salts and senna, &c. at large, who are as ignorant of their properties as the laws which govern their destiny?

3. What advantage is it to a man to pass all the examinations of the Society and start business for himself? Has he better chance of making an honest livelihood than his next-door neighbour who knows nothing about drugs, yet is allowed to advertise all manner of them at wholesale prices?

4. What is the use of a Pharmaceutical Society incorporated by Act of Parliament unless to protect its members, in the same way as members of the law and medical professions are protected?

5. As all business men look at their calling from a pecuniary point of view, would it not be better for the Pharmaceutical Council, as head of the Society, to study how they could further their trade interests than meet to pass encomiums on one another?

6. If the Pharmaceutical Society, as represented by their Council, are not directly responsible for the state of apathy to which the trade has fallen, who are?

These and many more questions of a similar nature could be put. Or, to be more personal, What do we pay officials big salaries for? Is it because we are such numbskulls as to require a set of men merely to examine discharged accounts and to enjoy the life of sinecures thereafter? Is not a sweeping reform necessary here also?

7. The next rupture with the parent society which we Scotchmen have will not be so easily wheedled over, so let those in authority, especially the President, be alive to this fact.

"Heder" and "Potas. Iodid." both talk about conservatism. Both of the Tweed it is every man for himself; "individualism" would be a more suitable term. It is the want of a conservative spirit, with a liberal mind, that is the bane of druggists here. This I hope soon to see remedied. "Union makes strength," and then a desire for Home Rule, administered from York Place, Edinburgh, take its place. Perhaps our grievances, imaginary or otherwise, would then have attracted attention which they deserve and the chemists rise from apathy and poverty to their proper sphere in the social ladder. Before this takes place, however, we must first purge the Pharmaceutical Society of the innumerable drones and leeches on which it upholds. Let good men be put in their places, men who really will strive for what is wanted. Are we not as good fish in the sea as ever came out? and who knows when another Bell or Mackay may arise?

SCOTTIE.

#### Cleaning Oily Bottles.

RE.—Acid. sulph. fort. is far more expeditious and useful than any alkali. Let the bottles well drain, so as to remove much of the oil as possible; then pour in a little of the acid (say 3ss. to a 3vij. bottle). Cork, and shake well for five or ten minutes, then wash with repeated rinsings of cold water. Every trace of oil and smell will be removed, and the dirtiest bottle will become as good as new. The carbolised solution may be used up in the manufacture of the black or field oils.

Yours truly,

ZETA. (1/93.)

#### Suggestions.

1. A petroleum lamp-glass makes a good percolator for all quantities.

2. A handful of cotton "waste" makes a good window-cleaner and glass-case polisher.

(3) The addition of  $\frac{1}{2}$  oz. of (yellow household) soap to a pound of cold cream improves its appearance and its keeping qualities. Formula:—Cerae alb. Japan, cetacei, of each 3j.; solve in O.O.O., 3vij.; sapon (ut supra), 3ss.; boracis, ʒij.; solve in aqua calidæ, 3vij. M. s. a. Ol. verbenæ, &c., q.s.

This for ordinary retail quality; if for patrician circles, possibly ol. amygd. dulcis, and a more expensive perfume, but the above answers very well.

ISSACHAR.

#### Somerset House Men.

SIR,—“Heder,” in your issue of July 21, suggests that any chemist who has had dealings with them should announce the fact.

Forty years ago (I was young then) I had a holiday, and had a friend who was at liberty to take charge for me. A man came for 2 oz. spts. wine (methylated unknown at that time). My friend did as I would have done—inquire, For what purpose? “To make varnish,”—sold it. A week after I had a visit from the Excise for selling spirits without a licence, explained the circumstance; for, strange to say, my friend was uneasy about it, and told me on my return. I explained the circumstance as well as I could. I had another visit very soon; more explanation wanted. I had a statement drawn out at trouble and expense, and two magistrates of our city did not hesitate to sign my explanation, or I would have been “run in” for selling spirits without a licence. I have many times been applied for and sold S. V. R., but always knew my customers, and invariably, after explaining, put coccus, camphor vel sem. carui in, and labelled accordingly.

It turned out that the S. H. man was on his holiday, and made his expenses by this amusement, several being fined, I remember, in various towns.

PISCATOR.

Tulip (40/97) sends us from a large Northern town some particulars of correspondence he has had. He received a letter, signed “A. E. Tanner,” dated from an address at Wandsworth. The writer said:—“Last week I purchased while in ——— a bottle of bay rum. I should like you to send me a bottle of *your own*. [The italicised words underlined.] I enclose 1s. 9d. P.O.O.” The article was supplied, and the familiar notice from Somerset House followed on May 9, 1888. After the interchange of a couple of letters, a fine of 1l. was imposed and paid.

#### The Shop Window.

A. A. has arranged many shop windows, and finds that seedlitz blue paper gives general satisfaction as a bottom covering, combining style, cheapness, and moderate permanence.

Cacodyl says that “much depends upon the style in which the shop window is used. If no goods are shown in it, a piece of plain linoleum with a border of Grecian pattern looks as well as anything, except parquetry. One of the best window-bases I know of is made of black marble with a border line of red marble to make a space for the specie jar. If the window is used for showing specialties and other stock, a splendid set-off is a base of “Liberty” cotton fabric of quiet colour. This is cheap, can be washed, and there is endless variety of colour.”

If expense be not a matter of consequence, I would recommend the floor of a shop window be laid with tiles; but in these hard times I think a good linoleum preferable: it can be got closely imitating tiles; it is easily laid down by oneself, and it has the advantage of wearing better than anything else I am acquainted with, and the more washing it gets the longer it will last.

CASCARA. (93/32.)

In reply to 29/79, I have used Turkey red for shop windows. It is cheap, washable, and does not fade. It looks well to cover boxes which are raised in the window,



and is attractive in appearance. This is a wrinkle which I got from THE CHEMIST AND DRUGGIST a few months ago, but I substituted Turkey red on account of price.

T. B. W. (100/10.)

#### Pharmacy Schools and the Medical Profession.

Mr. W. Fowler (Sunderland) writes in regards to this subject, and points out that all medical qualifying bodies do not accept evidence of training in pharmaceutical schools. The Durham University, for example, does not. "Although," continues the writer, "I am a pharmaceutical chemist and qualified from Bloomsbury Square School, yet the only subject I am exempt from is pharmacy, and that is because pharmaceutical chemists can sign up for this subject. Nor is there any advantage in being exempted, as it will not shorten the period of medical study required, nor will it lessen the fees; and since there are generally prizes given in each subject at the termination of the course, it is to the pharmaceutical student's advantage to take these classes out, not for the monetary value of the prizes, but for the stimulus they give to further strive to excel in the other branches of study. You recently mentioned the subjects for the Durham University Preliminary examination, and I may add that Greek is now compulsory for the M.B. degree."

#### Lady Ford's Liniment.

One egg					
Spt. of camphor ..	..	..	..	3ss.	
" turpentine ..	..	..	..	3i.	
Vinegar to ..	..	..	..	3xij.	

Make a liniment.

SPERO. (100/58.)

One egg					
Best vinegar ..	..	..	..	10 oz.	
Turpentine ..	..	..	..	$\frac{1}{2}$ "	
Methylated spirit ..	..	..	..	$\frac{1}{4}$ "	(or rect.)
Camphor ..	..	..	..	$\frac{1}{4}$ "	

Mix.

The liniment to be well rubbed in several times a day (behind the ears and neck for rheumatism in the head).

TULIP.

#### DISPENSING NOTES.

*The opinions of practical readers are invited on subjects discussed under this heading.*

*Dispensers who have compounded any of the following prescriptions, or similar ones, are requested to communicate their results to the Editor.*

#### Alkaloids and Hamamelis.

SIR,—In reply to "Minor Exam." regarding the above, tincture of hamamelis contains tannic acid, tannic acid gives a precipitate with aqueous solutions of salts of alkaloids, *ergo*, tincture of hamamelis should give a precipitate in the application referred to. Does "Minor Exam." doubt the fact? Has he tried the experiment?

10 New Cavendish Street,  
London, W., July 21.

Yours truly,  
WM. MARTINDALE.

#### Prescription Signs.

90/76. *Dispenser*.—The *Medical World*, relying on the close resemblance of the signs 3 (drachm) and 3 (ounce) as being likely to create error, has suggested the use of the Greek letter delta as the drachm sign. The suggestion is not a bad one; but if prescribers spent as much time in forming the sign 3 as they would require in striking the triangular sign there would be no necessity for change.

#### Tar Ointment and Lard.

"Why is it," writes B. H. A., "that ung. picis B.P. when prescribed with lard or lanolin always makes an unsatis-

factory ointment, minute particles of tar continually being found in the ointment if the mixture is heated and strained, and a large quantity of the tar separates?"

#### Non-Professional Hieroglyphics.

The subjoined is a reproduction of a prescription for drops for lumbago, which *Ap Siencyn* (89/27) would like a translation of:—

*Handwritten prescription:*  
16 drops of Spts 3  
sweets of 3  
mixed 1/4 of 1/2  
3 3 mixed  
is added 6 drops  
Diluted with  
milk & sugar  
105

The prescription has been dispensed by a great number of chemists, and their medicines and doses vary greatly. We shall be glad to receive translations of the prescription from any who have dispensed it, as well as from others. Post-cards should be used.

#### Ferri Citras c. Strychnia.

SIR,—There are, or used to be, two different kinds of ferri cit. c. strych. upon the market, the one resembling ferri cit. c. quiniâ, the other resembling ferri ammon. cit.

Consequently a mixture containing this scale preparation, such as mentioned by "Heder," would vary in colour according to whether the light or dark preparation had been used. I remember when an assistant in a Midland county-town that we always used the dark preparation in mixtures prescribed before a certain date, and the light in those prescribed after that date. I presume, therefore, that the dark is the older preparation of the two, but am open to correction on that point.

If "Heder" will refer to the Extra Pharmacopœia he will find that Martindale evidently considers the light preparation the correct one to use. I am, sir, yours truly,

Wakefield, July 21.

J. H. CHAPLIN.

SIR,—In reply to "Heder's" inquiry respecting the colour of a solution of ferri cit. c. strych. with syrup and chloric ether, I beg to say that in my experience the salt varies in colour with each sample, though each, with submission, may be expected to tally with that of a solution without syrup or ether.

A more important note may be that the actual strength in strychnine, varies, being frequently less in dark samples than light ones. Also the solubility varies; but I think that in this case colour is not a guide. REDEH. (99/63.)

SIR,—The colour of Heder's mixture made with ferri cit. c. strych., syrup, and chloric ether of the strength mentioned in his letter may be imitated with a mixture of 1 part tinct. cinchon. co. P.B. and 1 1/2 part S.V.R.

Yours faithfully.

CASCARA. (98/32.)



## LEGAL QUERIES.

92/58. *Wesley* asks if a hawker's licence is required by a chemist who sends a van round the neighbouring villages, without a qualified man, calling from house to house, retailing all manner of drugs?

It is provided by the Hawkers and Pedlars Act, 50 George III., chap. 41, section 23, that a hawker's licence is not required for the sale of *victuals*. It was held in the case of *Rex v. Hodgkinson*, 10 B. and C. 74, that yeast constituted victuals within the exemption of the Act, and it would probably be held that any drugs to be taken internally came under that description. So far, therefore, as this class of drugs is concerned, a hawker's licence would not be required. If a hawker sold drugs for outward application only, or any drugs that clearly could not come under the denomination of victuals, he would require a licence in the ordinary way. The Act of the present session merely affects the duty to be paid.]

92/32. *Entre Nous* has accepted by correspondence a position abroad for two years. He has no complaint to make of misrepresentation, but at the same time would like to leave the situation. He asks if the agreement made is a binding one?

So far as can be gathered from our correspondent's statement, the contract is perfectly valid and binding. It is possible that a penalty would have to be paid for not stamping it; but that is a minor matter. Moreover, it is very improbable that the French employer would come to England to sue for damages, which would be his only remedy if the assistant had left France.]

91/60. *S. V. P.* asks:—"Can any English law prevent an unqualified chemist using the words 'pharmaceutical chemist' or 'pharmaceutist,' or using the pharmaceutical arms or prescription envelopes in France?"

So far as English law is concerned, an unqualified chemist may use the words "pharmaceutical chemist" or "pharmaceutist" in France, or can place the pharmaceutical arms on his prescription envelopes. The Pharmacy Acts of Great Britain and Ireland have no operation outside the United Kingdom. It is possible, however, that under the *French Code* such a case could be dealt with under the head of "Concurrence Déloyale." Any rival chemist in the district might put the matter in motion, and the French law is much more severe and comprehensive than ours in cases of this kind.]

91/100. *Company*.—There is no law to prevent Mr. Jones from trading as "The Jones Manufacturing Company."

## MISCELLANEOUS INQUIRIES.

A large number of correspondents ask us for formulæ which have already been published in this journal. It is not fair to more careful readers that we should frequently repeat such information, and so long as the back numbers containing the formulæ or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 4d. each.

**Essence of Coffee Formula.**—See November 5, 1887, page 1. Also a New Method of Concentration, July 7, page 23. (92/20. *T. Wheeler*.)

**Magic Snuff.**—See August 27, 1887, page 263. (96/63. *Conia*.)

**Essence of Rennet.**—See February 18, 1888, page 234. (99/9. *J. Mitchell*.)

93/18. *T. A. J.*—A complete description of the analysis of one was given in our issue of July 30, 1887, page 1. In this you will get all the information which you require. The following is the formula for Fehling's Solution, as modified by Cresswell:—Dissolve 35 grammes copper sulphate

and 200 c.c. glycerine in 100 c.c. distilled water; separately dissolve 80 grammes of caustic soda in 400 c.c. of water. Mix the solutions, and boil for a quarter of an hour; allow to stand till clear, decant, and make up to 1,250 c.c. with water. 10 c.c. = 5 centigrammes of glucose.

93/31. *Milo*.—The treatment of spermatorrhoea depends altogether upon the symptoms which are most pronounced. Please consult Dr. Hargreaves's book.

93/27. *C. D.*—An Oil Liniment similar to the one you name is made from oil of sassafras, olive oil, camphor, and chloroform, of each 4 oz.; capsicum, 2 drachms; and turpentine, 20 oz., with alkanet q.s. to colour.

93/22. *W. R. Burnes*.—**Liquor Ergotæ Ammon.**—The Unofficial Formulary contains a tr. ergotæ ammon., which is a thoroughly active preparation, but a rather expensive one. The formula will be found in our issue of September 3, 1887, page 284. An excellent liquor may also be made by treating 1 lb. of coarsely powdered ergot with 2 oz. of solution of ammonia and 10 oz. of water, percolate, reserving the first 10 oz. which pass through; then continue the percolation with water until the drug is exhausted, evaporate this second percolate to the consistence of a soft extract, dissolve in the first portion, add 4 oz. of rectified spirit, and water to make 16 fluid oz.

93/49. *Peak Forest*.—**Mithridate** is the confectio damocratis, P.L. 1746. We last published the formula on February 19, 1887, page 248.

263/36. *T. D. Vint*.—There is no satisfactory way of treating well-water contaminated with sea-water, so as to render it suitable for domestic purposes.

89/43. *Max*.—**Herb Beer Extract.**—Extract of gentian and extract of liquorice, of each,  $\frac{1}{2}$  oz.; treacle, 6 oz.; burnt sugar,  $\frac{1}{2}$  oz. or q.s.; glycerine, 2 oz.; salicylic acid, 5j.; oil of bergamot, 15 drops; essence of pineapple, 5j. Water to 1 pint. Dissolve the extracts in 6 oz. of water, add the treacle and boil for five minutes, then strain, and add the glycerine and salicylic acid, previously mixed, also the burnt sugar and the flavouring made clear with a sufficiency of rectified spirit. Make up to a pint with water. An ounce of this extract is sufficient for a gallon of beer.

93/33. *Perfume*.—Those who appreciate Cheap Perfumes generally prefer a strong odour, such as patchouli, the essence of which you can make with a drachm of oil of patchouli and 15 minims of otto of rose to a pint of rectified spirit. You can combine most of the extracts to form excellent popular perfumes for sale at 1s. per oz., and if you consult our issues for March 6 and 27, 1886, you will find a large number of formulæ. The extracts you can make from the French pomades,  $\frac{1}{2}$  lb. of these being sufficient for a pint of spirit. (2) **Ammoniated Alcohol** is made by passing the gas generated from 12 oz. of slaked lime,  $3\frac{1}{2}$  oz. of ammonium chloride, and 6 oz. of water, into 2 pints of rectified spirit.

93/24. *A Blindelands Subscriber*.—(1) No reaction appears to take place. (2) Sowerby's "Illustrated Key to the Natural Orders of British Wild Flowers" (Gurney & Jackson, 7s. 6d.). A cheaper work is Ward & Lock's "Wild Flowers" (1s.), which will suit you to begin with. (3) Attfield's "Chemistry" is the most generally useful work for chemists and druggists.

93/30. *Caoutchouc*.—The simplest plan for the Estimation of Fatty Matter in Sheetings would be to take a measured portion of it, say 6 inches square, cut into small portions and digest in benzine for an hour with frequent agitation; repeat until no more of the fatty matter is extracted, filter the solu-



tions, evaporate and weigh. If the sheeting has not been treated with indiarubber, methylated ether may be used instead of benzine.

90/37, *Belgravia*; 93/58, *A. S.*—Boric and Salicylic Acids as Preservatives.—The experiments of Professor A. M. Mayer about three years ago showed that when 4 parts of boric acid were added to 10,000 parts of milk the fluid did not become sour until thirty-five hours, and coagulation was not complete until forty-seven hours had elapsed. The same quantity of salicylic acid under the same conditions kept the milk sweet for forty-seven hours, and coagulation was not complete until the end of eighty-two hours. This gives a fair indication of the relative value of the acids. The quantity of either to be added to any material depends entirely upon the nature of the latter. "Confectionery" is a term which covers a wide field. You must be more precise. (2) We do not know what antiseptic the Melton Mowbray pie-makers use.

93/53. *T. F. Walker*.—Inflammation of the Lungs in Pigs.—The animal should first get a mild purge of sulphur and Epsom salts,  $\text{Sij}$ . to  $\text{Siv}$ . of each, according to size, then give twice daily a dose consisting of powdered digitalis, 2 grains; antimonial powder, 6 grains; and nitre, 30 grains. (2) Swine Fever.—The first symptoms of this disease are loss of appetite, drowsiness, obstinate constipation, high-coloured urine, redness of the eyes, stiffness, hurried breathing, dry, harsh skin, and cold ears and legs, with a temperature several degrees above the normal ( $98^{\circ}\text{F}$ ). You will find a paper on the subject in this journal, November 15, 1885. (3) The "Farmer's Veterinary Adviser" contains useful information regarding the treatment of pigs, also Teller's "Diseases of Live Stock" (Baillière, 10s. 6d.).

94/41. *C. E. L.*—Deficient perspiration is the common cause of the skin drying and cracking, and this may be due to a low tone of the system. In that case a tonic is indicated, with topical application of diluted glycerine.

94/3. *H. S.*—The best way by which you may utilise the glycerine containing indigo is to dilute it with three times its volume of water, and filter through a deep layer of animal charcoal (contained in a lamp glass) until colourless. The clear liquid, suitably perfumed, will then be fit for sale.

95/52. *Gloucester*.—Ink for Zinc Labels.—Verdigris, 1 oz.; sal ammoniac, 1 oz.; lampblack,  $\frac{1}{2}$  oz.; water, 8 oz. Mix well in a mortar and shake before using. Write with a quill. (2) Rhubarb Wine which has become sour through age had better be rejected. Though neutralised by an alkali you can have little credit in sending such a doctored preparation out.

95/16. *Medicus*.—Balfour's "Elementary Botany" (Black, 3s. 6d.) will give you the information regarding the natural orders.

94/21. *Zylobalsam*.—We do not have a formula for Berkeley's sulpho-pyrogallol developer, and cannot undertake the analysis of such preparations. Formulae for such developers will be found in all hand-books of photography.

95/24. *H. W.*—To bleach the twine it should be treated with bleaching liquor before it is sized. This will of course affect the strength of the fabric somewhat.

97/38. *W. Saunders*.—The only other suitable method for Skeletonising Leaves is to steep them in a weak solution of peroxide of hydrogen.

96/31. *C. G.*—Cheap Violet Powder may be made with either powdered starch or talc and a fourth of its weight of

powdered orris. Fuller's earth for dusting requires no preparation. **Antibilious Pills:—**

Podophyllin .. .. .	gr. $\frac{1}{2}$
Ext. aloes Barb. .. .. .	gr. iss.
" nucis vomice .. .. .	gr. $\frac{1}{2}$
" hyoseyami .. .. .	q.s.
Fiat pilula.	

This is a good pill, and if carefully made it retains the shape well.

98/22. *Sponge*.—See reply to "X. Y. Z.," page 64.

98/45. *Progress*.—All the information which you require has been given in recent issues, and the whole subject will be treated fully in our next Educational number, to be published in September.

97/74. *Hedra Helic.*—Tea and similar stains in linen are readily removed by a weak solution of chlorinated lime.

99/35. *Wild Cherry*.—We have detected turmeric as the colouring matter in a popular Egg Powder. Little of it is required, and the odour may be covered with lemon or almond flavouring.

96/24. *E. R.*—Horse Blistering Ointment.—The following is the better formula of the two given in the 1883 DIARY:—

Powdered cantharides .. .. .	3 oz
" euphorbium .. .. .	1 "
Oil of bay .. .. .	2 "
Resin ointment .. .. .	2 "
Turpentine .. .. .	a sufficiency

99/52. *Captain* has just passed the Preliminary examination, is eighteen yearsold, and wishes to know what books he should begin with for the Minor. The Pharmacopœia is the first requisite, and "Captain" must master the contents of that thoroughly. He will find our 1886 DIARY a useful aid to the mastery of the novelties, &c. which the last edition of the Pharmacopœia introduced. We can supply copies of this at 2s. 6d. to subscribers. "The Art of Pharmacy" is also useful for explaining practical pharmaceutical processes. For botany one cannot do better than begin with Bentley's "Structural and Morphological" (Churchill, 7s. 6d.), and Wilson's "Chemistry" (Chambers, 3s. 6d.) is a very readable work on elementary inorganic chemistry. (2) If you are a student of the Pharmaceutical Society there is nothing to prevent you placing either S.P.S. or A.P.S. behind your name, but it is rather foolish. (3) You will find full information regarding Naval Hospital Dispenserships in our last Educational number.

73/98. *Aqua*.—The employment of a dispenser on an emigrant vessel is generally within the control of the ship's surgeon. There is no law compelling the employment of a dispenser. The only way to obtain such a position is to apply either to the surgeon himself, or to the owners of the ship, who would probably hand the letter to the surgeon. There is not much pay attached to the place. Generally it is possible to get someone who is glad to do the dispensing for his passage.

#### Information Wanted.

[Replies to the following requests are solicited by correspondents of THE CHEMIST AND DRUGGIST.]

79/66. The best method for killing snails in a fern case, also for killing green fly on plants, and getting rid of worms in flower pots containing plants.

97/72. Full analysis of the waters used in brewing by Worthington & Co. and Bass & Co., Burton.

97/24. What is the best way to fix menthol cones in glass cases?



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# THE CHEMIST AND DRUGGIST OF AUSTRALASIA.

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This Journal is the Official Organ of the Pharmaceutical Societies of  
**NEW SOUTH WALES,  
QUEENSLAND, AND  
SOUTH AUSTRALIA,**

And for the Pharmaceutical Associations of

**NEW ZEALAND  
AND  
TASMANIA.**

It is supplied by special contracts to all members of the above Corporations, and is subscribed for besides by nearly the whole of the rest of the Drug Trade in all the Australasian Colonies.

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NEW SOUTH WALES ...	£126,673	SOUTH AUSTRALIA ...	£28,528
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## FLUID EXTRACT OF CINCHONA,

made from C. Califaya, or C. Succirubra, containing the whole alkaloidal contents of the bark.

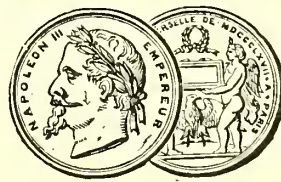
## QUININE, CINCHONA ALKALOIDS,

Acids, pure.  
Ethers, pure & methylated.  
Antimony preparations.  
Benzoic Acid & Benzoates.  
Bicarbonate of Soda (Howards').  
Bismuth preparations.  
Borax & Boracic Acid.  
Bromides of the Alkalies.  
Camphor Bells, Blocks, & Flowers.  
Cocaine Hydrochlorate.

Citrate of Iron & Quinine, P.B.  
Citric Acid & Citrates.  
Corrosive Sublimate.  
Iodides of the Alkalies.  
Iodoform.  
Magnesia.  
Mercurials, Calomel, &c., &c.  
Rochelle Salt & Pulv. Seidlitz.  
Spirit preparations.  
Urethane & Hypnone.

AND OTHER PHARMACEUTICAL CHEMICALS.

# Stratford, Essex.



*Detailed Price Lists on application.*



# HEARON, SQUIRE & FRANCIS

Chemical & Galenical  
Preparations of  
the British & Foreign  
Pharmacopœias.



TRADE MARK.

Standardized Drugs  
and Preparations  
for Home & Export  
Trade.

## SELECT PREPARATIONS—"HERON" BRAND.

Cascara Cordial

(For Habitual Constipation).

Ess. pro Mist. Ferri Co.

Liquor Santal Co.

Pepsin Glycer. Acid.

Sol. Bismuth. Aromat.

Syr. Hypophos. Co.

Vin. Cocæ.

Cucumber Cream.

Cucumber Essence.

Cucumber Pomade.

## SOLUTIO PICIS CARBONIS.

A Solution in Alcohol of the *whole of the medicinally active substances* contained in Coal Tar.

### SOLUBLE ESSENCES

For Aërated Beverages.

### GRANULAR EFFERVESCENT PREPARATIONS.

## EXTRACT OF MALT IN VACUO.

Keeps perfectly, and possesses the characteristic flavour of Malt.

## INFANTS' FOOD MALTED IN BULK.

ROLLED PILLS (Pearl or Gelatine Coated). List on application.

GOODS FOR SHIPMENT CAREFULLY PACKED.

PACKAGES AT LOWEST RATES.

SPIRITS AND TINCTURES IN BOND.

Telegraphic Address—"FRANCIS LONDON."

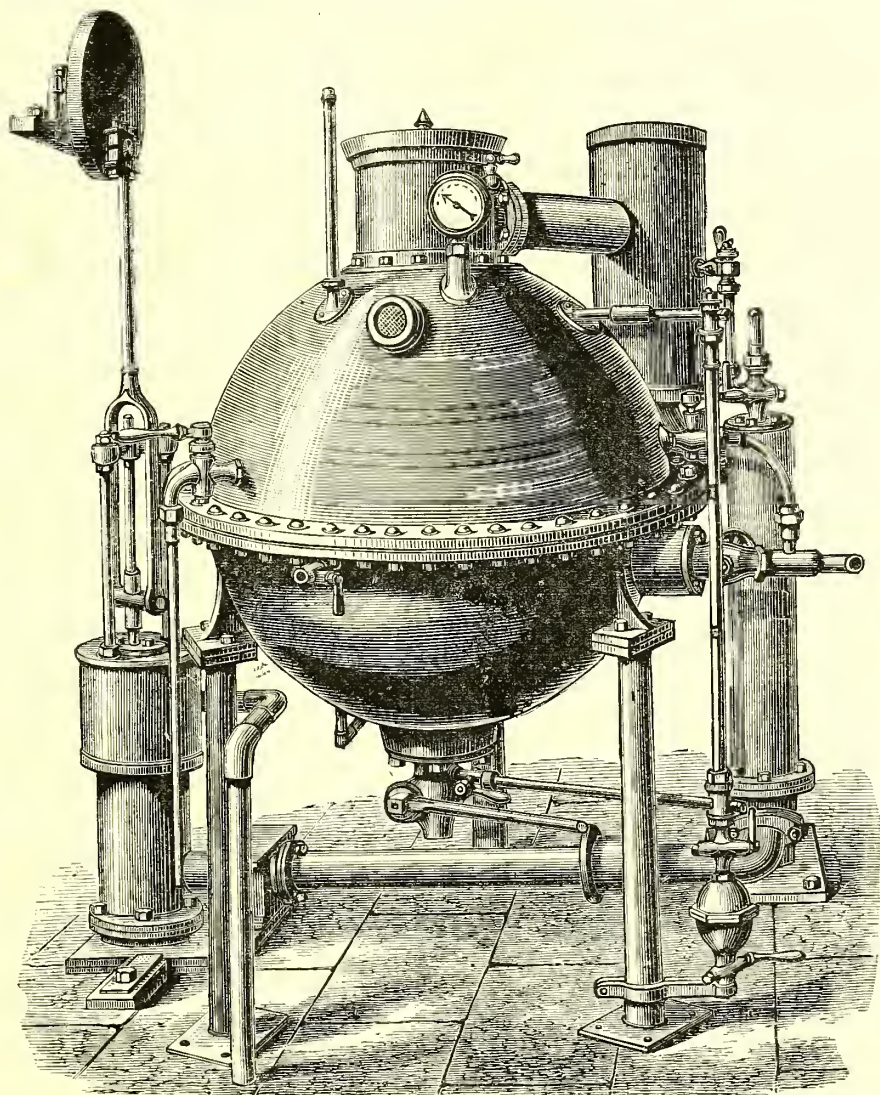
5 COLEMAN ST., LONDON.



# HEARON, SQUIRE & FRANCIS,

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**WHOLESALE & EXPORT DRUGGISTS.**

ESTABLISHED AT 95 BISHOPSGATE STREET, 1714.



CONCENTRATED INFUSIONS, LIQUORS, & LIQUID EXTRACTS IN VACUO.  
5 COLEMAN ST., LONDON.





# DRUGGISTS' SUNDRIES



We beg again to call the attention of the Trade to the above department of our business, which has so rapidly increased as to necessitate constant enlargement of our premises. We guarantee quality of all our goods, and all articles of Best Quality bear our Trade Mark as above. The word "Savars" is also registered as a Trade Mark.

Our Price Lists are most complete, and are supplied (as also are our goods) TO REGISTERED CHEMISTS AND DRUGGISTS ONLY.

## EVANS, SONS & CO. LIVERPOOL.

EVANS, LESCHER & WEBB,  
LONDON.

EVANS, SONS & MASON, LIM.  
MONTREAL.

Offices at BIRMINGHAM, MANCHESTER, PARIS, TORONTO,  
VICTORIA (B.C.), SYDNEY, &c., &c.

SAVARS Absorbent Cotton Wool. See page 26.	SAVARS Cosmetiques ... .. See page 26.
SAVARS Animal Soap ... .. 89.	SAVARS Cotton Wool ... .. 26.
SAVARS Bears' Grease... .. 75.	SAVARS Court Plasters ... .. 70.
SAVARS Bed Pan, with Cover (Registered) 2.	SAVARS Cream of Lilies ... .. 102.
SAVARS Breast Exhausters ... .. 15.	SAVARS Cubeb Cigarettes. See Patent List, p. 18.
SAVARS Breast Pumps... .. 15.	SAVARS Ear Syringes... .. See page 96.
SAVARS Breast Relievers ... .. 16.	SAVARS „ Sponges ... .. 91.
SAVARS Brilliantine ... .. 75.	SAVARS Eau de Cologne ... .. 27 & 66.
SAVARS Brunswick Black ... .. 16.	SAVARS Electro Magnetic Machines „ 28.
SAVARS Bunion Plasters, Savars... .. 69.	SAVARS Emollient Camphor Roll „ 21.
SAVARS Cachou Lozenges ... .. 44.	SAVARS Extract of Limes and Glycerine. See page 75.
SAVARS Calves' Foot Jelly. See Patent List, p. 18.	SAVARS Family Enema, and other Enemas. See page 97.
SAVARS Camphor Caskets ... .. See page 21.	SAVARS Family Adhesive Plaster, Savars. See page 69.
SAVARS Carbolie Acid Soap ... .. 89.	SAVARS Family Mustard Plaster. See page 74.
SAVARS Chest Protectors ... .. 23.	SAVARS Family Magnum Pomades „ 75.
SAVARS Cold Tar Soap ... .. 89.	SAVARS Feeding Bottles ... .. 30.
SAVARS Cold Cream ... .. 24.	SAVARS Flesh Gloves ... .. 36.
SAVARS Cologne Cream ... .. 102.	SAVARS Floral Bloom, in 1/- Bottles „ 102.
SAVARS Combination Medicine Spoon (China) See page 57.	
SAVARS Corn Plasters, Savars See page 69.	





# DRUGGISTS' SUNDRIES



**SAVARS Filtering Papers** (Circular). See page 64.  
**SAVARS Fluid Dentifrice** ... .. „ 102.  
**SAVARS Fly Papers** ... .. „ 37.  
**SAVARS Fossiline, Simple** ... .. „ 102.  
**SAVARS „ Plaster, Adhesive, Savars.**  
 Adheres without warming, and may be easily removed for the inspection of wounds, &c.  
 See page 73.

**SAVARS Fossiline Pomade** ... .. See page 75.  
**SAVARS Fuller's Earth**, in Packets ... .. „ 37.  
**SAVARS Furniture Polish** ... .. „ 37.  
**SAVARS Glycerine Jelly** ... .. „ 39.  
**SAVARS "Good Samaritan" Chest Protectors**  
 —Vest shape—these are manufactured from selected Lamb's Wool, specially purified without chemical aid; they are free from any obnoxious colouring matter, cochineal only being used, and they have an even surface; they are the cheapest Vest-shape Protectors sold. See page 23.

**SAVARS "Good Samaritan" Porous Plasters.**  
 —Capsicum, Belladonna, Roborans, and Strengthening, spread on a new material equal to leather; the cheapest Porous Plaster made; quite as effectual as any and more comfortable in the wearing. See page 74.

**SAVARS Gutta Percha Tissue** ... See page 39.  
**SAVARS House Thermometer** ... .. „ 100.  
**SAVARS Improved Higginson Enema** .. „ 97.  
**SAVARS Inexhaustible Smelling Salts** .. „ 89.  
**SAVARS Jewellery Requisites** ... .. „ 40.  
**SAVARS Juniper Tar Soap** ... .. „ 89.  
**SAVARS Knife Polish** ... .. „ 41.  
**SAVARS Lavender Water** ... .. „ 63.  
**SAVARS Lint** ... .. „ 44.  
**SAVARS Lip Salve** ... .. „ 44.  
**SAVARS Marking Ink (Guaranteed)** ... .. „ 45.  
**SAVARS "May Blossom" Requisites** .. „ 45.  
**SAVARS Medicine Droppers**... .. „ 27.  
**SAVARS Metal Polishing Paste** ... .. „ 58.  
**SAVARS Nail Trimmers** .. .. „ 62.  
**SAVARS Nipple Shields** ... .. „ 62.  
**SAVARS Oatmeal Soap**... .. „ 89.  
**SAVARS Odorators (Folding)** ... .. „ 63.  
**SAVARS Obstetric Binders** ... .. „ 63.  
**SAVARS Ozone Water** ... .. „ 102.

**SAVARS Parcels Post Envelopes** ... See page 65.  
**SAVARS Perfume Sachets** ... .. „ 79.  
**SAVARS Perfumery** ... .. „ 65.  
**SAVARS Poison Stoppers** ... .. „ 75.  
**SAVARS Pomades** ... .. „ 75.  
 Cantharadine, Castor Oil, Crystallized, Floral, Fossiline, Marrow, May Blossom.

**SAVARS Popular Inhaler** ... .. See page 40.  
**SAVARS Poudre de Riz** ... .. „ 75.  
**SAVARS Restorative Smelling Salts** .. „ 89.  
**SAVARS Salicylic Corn Plasters.** (Savars) 69.  
**SAVARS Sealing Wax** ... See page 83.  
**SAVARS Soda Water Taps** ... .. „ 90.  
**SAVARS Shaving Cream** ... .. „ 84 & 102.  
**SAVARS Starch Glaze**... .. „ 93.  
**SAVARS Sulphur Water** ... .. „ 102.  
**SAVARS Toilet Companion**—comprising a variety of Savars Specialities arranged in a neat partitioned box, handsomely labelled, peculiarly adapted for a Birthday Gift. Details, see page 102.

**SAVARS Toilet Requisites** ... See page 102.  
**SAVARS Toilet Soaps** ... .. „ 89.  
**SAVARS Tooth Paste** ... .. „ 103.  
**SAVARS Tooth Picks** ... .. „ 105.  
**SAVARS Transparent Glycerine Soap** .. „ 89.  
**SAVARS Transparent Wash Balls** .. „ 89.  
**SAVARS Trusses** ... .. „ 105.  
**SAVARS Vaccination Shields** ... .. „ 109.  
**SAVARS Violet Powder** (guaranteed pure Starch Powder) ... .. See page 109.  
**SAVARS White Fossiline Cold Cream** .. „ 24.  
**SAVARS White Fossiline Pomade** .. „ 75.  
**SAVARESSE'S Membraneous Capsules.** See Patent List, page 18.

**SAVARS Poor Man's Plasters, ordinary, Savars.**  
 See page 73.

**SAVARS Poor Man's Plasters, Porous, Savars.**  
 We call special attention to these Plasters. They are the same size as ordinary Poor Man's Plasters, but spread on a Patented Material equal to Leather, and Porous. They already command a large and ready sale. See page 73.

**SAVARS Porous Marginal Plasters, Savars,**  
 spread on Leather ... See page 73.

**SAVARS Pumice Stone** ... .. „ 78.  
**SAVARS Respirators** ... .. „ 79.

*N.B.—The Pages refer to pages on our Business Price List, which can be had on application accompanied with card.*

**SPECIAL LISTS AND TERMS FOR EXPORT.**



The Chemische Fabrik auf Actien, vormals E. Schering, Berlin,

MANUFACTURERS OF SCHERING'S

# PURE CHEMICALS

PARTICULARLY OF

ACID, GALLIC ... ..	Almost white needles ... ..	Freely and entirely soluble in alcohol or water
" PYROGALLIC ... ..	Bi-sublimed, white, bulky ... ..	Ditto ditto ditto.
" SALICYLIC (Kolbe's)	White, powder, crystallised and dialysed	Dissolves colourless in water or alcohol; purest for medicine.
" TANNIC ... ..	Lightest crystals ... ..	Dissolves almost colourless in water, alcohol, and ether.
" " ... ..	Powder and granulated ... ..	Dissolves freely in water, alcohol, and ether.
CELLOIDINE (Patent) ... ..	Gelatine plates... ..	Purest Pyroxylin; inexplusive.
CHLORAL HYDRATE ... ..	White cake and crystal ... ..	See Liebreich's, below.
CHLORAL HYDRATE (Liebreich's)	Transparent rhomboidals (facsimile of Dr. Liebreich's)	Will not decompose by age.
CROTON CHLORAL ... ..	Shiny crystalline scales. (Powder form most objectionable)	Free from foreign chlorides.
GLYCERINE... ..	S.G. 1260, double distilled, brilliantly white, odourless; also lower S.G. and qualities	Free from lime, chlorides, metals; will stand severest chemical tests.
IODINE ... ..	Resublimed, fine scales ... ..	Purest.
IODIFORM, Absolut. ... ..	Crystals and powder of soft touch...	Purest; made by electrolysis.
PARALDEHYD ... ..	... ..	Absolutely purest.
POTASS. BROMIDE ... ..	Fine white dry regular crystals ...	Perfectly free from iodide, and the most free from chloride.
" PERMANGANATE	Large and small crystals ... ..	Chemically pure.
" IODINE ... ..	Fine white dry regular crystals ...	Apply Barytic and other tests. This will never change colour.
SODA SALICYLATE, and other Salicylates	White powder and crystals ... ..	Freely soluble in water and alcohol.

## H. FINZELBERG, of Andernach-on-Rhine.

ERGOTINE, pure Dialysed ...	Brown colloid, purified by Dialysis	Free from all saline matter present in the ordinary Ergotine and extracts.
FERRUM OXYD. (5% Dialysed)	Transparent brown liquid, purified by Dialysis	Free from all saline matter. Diluted by ten times its weight of water, will stand the test of Nitrate of Silver.
PEPSIN PORCI (100%) ... ..	White, sweet, odourless powder ...	Freely soluble in water, not hygroscopic, and will not deteriorate; will dissolve (by Wittstein's test) 100 parts of white of egg and 250 parts of fibrine.

**KALLE & CO.'S**  
**PATENT JODOL AND ANTIFEBRINE.**

SOLE WHOLESALE AGENTS—

**A. & M. ZIMMERMANN, 6 & 7 CROSS LANE, ST. MARY-AT-HILL, E.C.**

*For Quotations, &c., apply to Wholesale and Export Drug and Chemical Houses.*



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## C. F. BOEHRINGER & SÖHNE,

MANUFACTURING CHEMISTS,

**MANNHEIM, GERMANY.**

# QUININE

AND ITS BY-PRODUCTS.

Cinchonidine

Cinchonine

Quinidine

Cocaine

Caffeine

Atropine

Homatropine

Hyoscyamine

Papain

Eserine

Pelletierine

Brucine

Pilocarpine

Podophyllin

Reforcin

Sparteine

Strophantin

Strychnine

Veratrine

Salicin

Acetanilid

Urethan

&c., &c.



LONDON, 1862.



[BRONZE.]

PARIS, 1867.



[SILVER.]

PHILADELPHIA, 1876.



[HIGHEST AWARD.]

LONDON, 1885.



[GOLD.]

PARIS, 1885



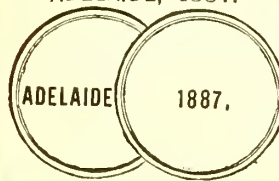
[GOLD.]

LIVERPOOL, 1886.



[GOLD.]

ADELAIDE, 1887.



[HIGHEST AWARD.]

# GASKELL DEACON & CO.

## WIDNES, ENGLAND,

MANUFACTURERS OF

### BLEACHING POWDER,

IMPROVED HIGH TEST

### BICARBONATE OF SODA

(SODA BICARB. PULV.),

### CRYSTAL CARBONATE

(The best preventative of Boiler Incrustation, and the purest and cheapest form of Washing Soda).

REFINED ALKALI	} From 25%
SODA ASH - -	

### CAUSTIC SODA, 60% and 70%, SODA CRYSTALS,

AND

### CHLORIDE OF CALCIUM.

TELEGRAPH ADDRESS—"WOODEND WIDNES."

TELEPHONE No. 4, WIDNES.



ESTABLISHED OVER 140 YEARS.

# BURGOYNE, BURBIDGES, CYRIAX & FARRIES, WHOLESALE & EXPORT DRUGGISTS,

MANUFACTURERS OF  
PHARMACEUTICAL PREPARATIONS,

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Alkaloids, &c.,

IMPORTERS & DISTILLERS OF ESSENTIAL OILS,

DEALERS IN

Druggists' Sundries, Chemical & Pharmaceutical  
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Now remedies stocked immediately upon introduction. Preparations prepared according  
to the formulæ of all the known Pharmacopœias. Correspondence and Lists  
in all foreign languages.

SAMPLES AND SPECIAL QUOTATIONS UPON APPLICATION.

## PRIZE MEDALS:

PARIS, 1867.

PARIS, 1878.

CALCUTTA, 1884.

EDINBURGH, 1886.

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Laboratories and Warehouse: 16 COLEMAN STREET,

**LONDON, E.C.**

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# DUNCAN, FLOCKHART & CO.

*Wholesale and Export Druggists,*

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# CHLOROFORM

(DUNCAN'S).

PREPARED FROM PURE AND METHYLATED SPIRIT.

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in bottles corked and luted (stoppers attached), and in hermetically sealed flasks when required.

*N.B.—We guarantee our Chloroform prepared from METHYLATED SPIRIT to be PURE CHLOROFORM, answering all the tests of the British Pharmacopœia.*

# CHLORIC ETHER

(DUNCAN'S).

This is a Special Preparation, quite different from Spir. Chloroformi, B.P., perfectly miscible with water, and always of the same strength.

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In Boxes, at 1/6 and 2/6. 14/- and 24/- per dozen.

Each Capsule equal to half a teaspoonful of Fluid Extract of Cascara Sagrada. The chief drawback to the use of this valuable drug, its unpleasant bitterness, is obviated when taken enclosed in Capsules.

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(DUNCAN'S).

Fluid Extracts, Concentrated Infusions, and all Pharmacopœial Preparations.

*(Our Fluid Extracts and Concentrated Infusions are Prepared by a Special Process, whereby their Therapeutic Properties are fully retained.)*

# WHITE GUTTA PERCHA FOR STOPPING TEETH,

In 6d. and 1s. Boxes.

# ESSENCE OF RENNET,

For making Curds and Whey. A thoroughly Reliable Preparation, warranted to keep for years in any climate.

In Bottles, Price 6d. and 1s.



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## SEASON 1888.

Value of Cod Liver Oil as a medicinal agent is recognised alike by the medical profession and the general public. It is an unfortunate fact, however, that a remedy so well known and appreciated should be represented by so many sorts as are in the market, different in colour, odour, and taste, as well as in digestibility and medicinal value.

Southall's A1 Oil, unlike other samples, contains only a small amount of indigestible matter (solid fats), and a larger proportion of the principal constituents of Cod Liver Oil.



*It is sent out in first-class style, 8-oz. and 18-oz. Bottles; 16s. and 32s. per dozen.*

The Bottles are so securely sealed that the Oil, even in hot climates, remains perfectly sweet.

*Packed for export, in cases containing 6 dozen small and 3 dozen large size.*

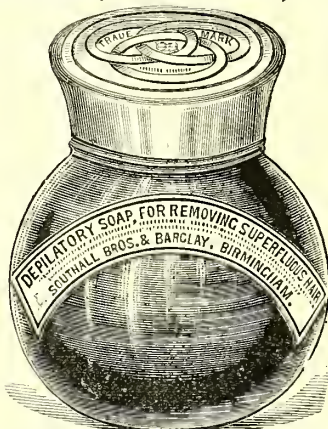
# SOUTHALL'S DEPILATORY SOAP,

A NEW INVENTION, SPECIALLY PREPARED FOR THE INDIAN MARKET.

For Removing Superfluous Hairs, without Pain, from any part of the Body.

SOUTHALL'S DEPILATORY SOAP is perfectly harmless, clean in its effects, and is not irritating even to the most delicate skin; ladies, therefore, need have no fear of using it.

SOUTHALL'S DEPILATORY SOAP is of a soft consistence, smooth, very easy to apply, and perfectly free from any of the disagreeable odours which render the ordinary depilatories so objectionable.



SOUTHALL'S DEPILATORY SOAP does not cause painful eruptions and sore places, and thus differs from other depilatories, which are quite unfit for the special purpose for which they are intended.

*Sold in Stoppered Glass Jars, with full directions for use, Price 12s. per dozen.*

# SOUTHALL'S MOSQUITO CONES.

EACH BOX GIVES TWENTY-FOUR QUIET NIGHTS' REST.

A Cone burnt in a room a few minutes before going to bed will drive away or stupefy all kinds of Mosquitoes, Flies, Beetles, and other annoying Insects.

SOUTHALL'S MOSQUITO CONES are composed entirely of harmless aromatic plants, and in burning give an agreeable smell, which even the most delicate persons can support without its causing headache or other inconvenience. Price 7s. 6d. per doz.

# SOUTHALL'S "CASCARA" AND "MAY-APPLE" PILLS.

Composed of Cascara Sagrada bark and May-apple. The combination of these drugs is such that the valuable properties of each are emphasised, and together they present a remedy of great efficacy in the treatment of Liver Complaint, Chronic Constipation and its attendant evils.

MANUFACTURED ONLY BY

# SOUTHALL BROS. & BARCLAY, BIRMINGHAM,

Wholesale and Export Druggists, Chemical Manufacturers, and Drug Grinders; Makers of THE SANITARY TOWEL FOR LADIES. Surgical Dressings, &c. And to be obtained of their INDENT AGENTS—BALLANTINE & Co., S. J. NOBLE & Co., Bombay; McDOWELL & Co., Madras; SOOFAALLY HIPTOLLA & Co., Calcutta; H. J. RUSTOMJEE, Karachi; HAJEE ISMAIL SAIT, Bangalore; and through all Chemists and Storekeepers in India.



London International and Universal Exhibition, 1884, Gold Medal Awarded for our Pharmaceutical Preparations.  
Calcutta Exhibition, First-class Certificate and Two Prize Medals Awarded for our Pharmaceutical Preparations.

# HEWLETT'S LIQUOR SANTAL FLAV. c. BUCHU et CUBEBA

THE ORIGINAL PREPARATION.

Price (in England) 10s. 6d. per pound, packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., and 90-oz. Bottles.

## HEWLETT'S "PERMANENT" LIQUOR FERRI IODIDI. LIQUOR EASTONI (HEWLETT'S). SYRUP EASTONI (HEWLETT'S).

C. J. HEWLETT & SON, MANUFACTURING CHEMISTS, LONDON, E.C.  
40, 41, & 42 CHARLOTTE ST.,  
ESTABLISHED 1832.

Physicians will oblige, when ordering *Liq. Santal Flav. cum Buchu et Cubeba*, by writing "*Liquor Santal Flav. c. Buchu et Cubeba (Hewlett's).*"

London International and Universal Exhibition, 1884, Gold Medal Awarded for our Pharmaceutical Preparations.  
Calcutta Exhibition, First-class Certificate and Two Prize Medals Awarded for our Pharmaceutical Preparations.

# HEWLETT'S MIST. PEPSINÆ CO. C. BISMUTHO.

Highly recommended in various forms of dyspepsia, having a direct action upon the mucous membrane of the stomach and intestines as a sedative. It can be administered with marked and almost instantaneous effect in the irritative form of dyspepsia more especially when *pyrosis* is a conspicuous symptom, and pain occurs an hour or more after food. In simple neuralgic gastric pain following eating, occurring in feeble subjects, it is especially indicated, and even in *carcinoma* it has been used with great success in alleviating pain and vomiting.

In the dyspepsia of patients dependent upon some organic disease, and where there is a decided loss of nerve power, it is of singular service. Thus, for instance, a person after a meal complains of a peculiar gnawing and emptiness, with slight pain at the epigastrium, evident signs of general relaxation and loss of nerve power, clinical experience has shown that it is of great service as a tonic and stomachic. A portion of its value arises, it may be, from its action upon the spinal motor nerve centres. Be these things as they may, experience has abundantly demonstrated the value of the compound as a stomachic, anti-dyspeptic, and tonic, in general functional atony and relaxation, and in the various forms of dyspepsia, constipation, or diarrhoea, connected with atony of the visceral muscular coat, the Mist. Pepsinæ Co. c. Bismutho is a very valuable remedy. In the *exhausting purging of Phthisis*, accompanied with night sweats and restlessness, Dr. MATHEWS, of Nantwich, has used it with marked and appreciable effect.

Price (in England) 10s. 6d. per pound.

Physicians will oblige, when ordering Mist. Pepsinæ Co. c. Bismutho, by writing Mist. Pepsinæ Co. (Hewlett's).

Packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., and 90-oz. Bottles.

## LONDON MEDICAL RECORD REPORT.

MISTURA PEPSINÆ COMPOSITA CUM BISMUTHO.

"This combination of Messrs. HEWLETT is one which has been extensively tested, and with good results. It is justly popular in the profession as a very valuable and effective combination. It serves not only to improve apæpsia, but to lessen the gastric pain and to facilitate difficult and painful digestion, without setting up any evils of its own. It is a very good crutch for persons of weak stomach to lean on."—January 16th, 1881.

## C. J. HEWLETT & SON,

MANUFACTURING CHEMISTS,

40, 41 & 42 CHARLOTTE STREET, LONDON, E.C.

[Established 1832.]





ESTABLISHED 1770  
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TOILET SOAP MAKERS  
AND PERFUMERS  
WHOLESALE AND FOR EXPORTATION.  
LONDON AND PARIS.



Prize Medals Awarded for Purity and Excellence



London 1862.

Established  
1770.



Paris

# YARDLEY & CO

## Toilet Soap Makers and Perfumers

SOLE MAKERS OF

### PARIS'S REAL OLD WINDSOR

From the Original Recipe as made by SIMS of

ORIGINAL MANUFACTURERS OF THE

### Prize Medal Honey

AND MAKERS OF

### GENUINE TRANSPARENT

Wholesale and for Exportation

IMPORTERS OF

### TRIPLE EXTRAITS PERFUMES AND BOUQUETS

BY ANTOINE CHIRIS, GRASSE (VAR.)

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PARIS'S

REAL OLD

WINDSOR SOAP,

Manufactured by SIMS of Windsor since the year 1812. Made solely by

THOMAS PARIS & SON,  
LATE 139, STRAND.

agreement of 3rd December. 1886,  
Original Recipe with the Sole Right of  
Manufacturing

PARIS'S REAL OLD WINDSOR SOAP

IS TRANSFERRED TO

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# YARDLEY & CO

SAPO OLEI HELIANTHUS ANNU

OR,

# SUN FLOWER OIL SOAP

Patronised by  
Royalty,  
the Nobility,



Clergy  
Gentry &  
United  
Kingdom

THE PERFECTION OF

## TOILET SOAPS.

The Manufacture of Soap from Oil, prepared from the Seed of the Helianthus Annuus, or Sun Flower, is a Discovery of the

**C. B. FLEETWOOD, ESQ.,**

*Practical Chemist to the Royal Agricultural Society of England.*

The Recipe for the manufacture of this Soap was placed in the hands of Messrs. YARDLEY & Co. by a most intimate scientific friend of the late Mr. Fleetwood, who possessed posthumous documents relative to the discovery, and from his connection with that eminent Chemist, has in a great measure facilitated the endeavours of the Manufacturers in bringing it to its present state of perfection.

Since the introduction of the SUN FLOWER OIL SOAP in 1838, YARDLEY & Co. have been much gratified and honoured in receiving the most flattering Testimonials from Ladies and Gentlemen, who have tested and appreciated its Cream and Permanent Lather, and its emollient effect upon the skin. Its perfume is most refreshing and lasting, and is admitted by all experienced in this branch of manufacture to be by far the most pleasing, as well as useful, Toilet Soap extant.



# **KARDLEY & Co.'s** **VINE TRANSPARENT SOAP**

THIS TABLET IS BY A NEW PATENT PROCESS  
INDELIBLY BRANDED RIGHT THROUGH

**Finest and Best that can possibly be made.**  
*Surpassed for the Complexion—Excellent for Shaving, and  
unrivalled as a Toilet Soap.*

**TOILET TABLETS, 6d each; UNSCENTED 4d each;  
SHAVING STICKS, 6d each.**

**Makers of Paris's Real Old Windsor Soap**  
**PRICE 2/6 PER PACKET.**

## **THE FINEST TOILET SOAPS**

*are refined, and strongly but delicately perfumed.*

**Unscented Old Brown**

**Unscented  
Sandal  
Patchouli  
Otto Rose  
Sandal Wood**

**Pall Mall  
Spermaceti  
Patchouli  
Otto Rose  
Sandal Wood**

## **THE CHOICE TOILET SOAPS**

**Unscented Old Brown Windsor  
Unscented Old Brown Windsor  
Glycerine Soap  
Unscented Glycerine Soap  
Unscented St. John's Oil Soap  
Unscented Elder Soap  
Unscented Rose Soap  
Unscented Sandal Soap**

**Genuine Honey Soap  
Cold Cream Soap  
Medicinal Carbolic Acid Soap  
Stockholm Tar Soap  
Pure Coal Tar Soap  
Sulphur Soap  
Kaoline and Myxodine—  
Especially adapted for Children  
and Ladies' use.**

*These soaps are issued chiefly in Cartons of three magnani  
Tablets at 1/6 per Carton.*

## **ESSENCE OF STARCH, LAVENDER, COLOGNE,**

**HAIR OILS AND WASHES FOR THE HAIR,  
CHERRY TOOTH PASTE, TOOTH POWDERS,**

**TOILET FULLER'S EARTH, AND ROSE FACE POWDERS, ETC.**

**KARDLEY & Co.'s Prize Medal Toilet Soaps and Perfumery are  
for sale at the retail of all dealers in Fancy Soaps and Perfumery  
throughout the world.**



# YARDLEY & CO'S GENUINE TRANSPARENT SOAP

EACH TABLET IS BY A  
NEW PATENT PROCESS INDELIBLY  
BRANDED RIGHT THROUGH **Y**

THE PUREST AND BEST  
THAT CAN  
POSSIBLY BE MADE.

*Unsurpassed for the Complexion—  
Excellent for Shaving, and unrivalled  
as a Toilet Soap.*

SCENTED TABLETS, 6d. each;  
UNSCENTED, 4d. each;  
SHAVING STICKS, 6d. each.





London International and Universal Exhibition, 1884, Gold Medal Awarded for our Pharmaceutical Preparations.  
Calcutta Exhibition, First-class Certificate and Two Prize Medals Awarded for our Pharmaceutical Preparations.

# HEWLETT'S LIQUOR SANTAL FLAV. c. BUCHU et CUBEBA

THE ORIGINAL PREPARATION.

Price (in England) 10s. 6d. per pound, packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., and 90-oz. Bottles.

## HEWLETT'S "PERMANENT" LI LIQUOR EASTONI (I SYRUP EASTONI (H

C. J. HEWLETT & SON, MANUFACTURING  
40, 41, & 42 CHARLOTTE STREET, LONDON, E.C.  
ESTABLISHED

Physicians will oblige, when ordering *Liq. Santal Flav. cum Buchu et Cubeba (Hewlett's).*

London International and Universal Exhibition, 1884, Gold Medal Awarded  
Calcutta Exhibition, First-class Certificate and Two Prize Medals Awarded

## HEWLETT'S MIST. PEPSINÆ CO.

Highly recommended in various forms of dyspepsia, having a direct action on the intestines as a sedative. It can be administered with marked and almost instantaneous effect especially when *pyrosis* is a conspicuous symptom, and pain occurs an hour or more after eating, occurring in feeble subjects, it is especially indicated, and success in alleviating pain and vomiting.

In the dyspepsia of patients dependent upon some organic disease, and when of singular service. Thus, for instance, a person after a meal complains of a pain at the epigastrium, evident signs of general relaxation and loss of nerve power service as a tonic and stomachic. A portion of its value arises, it may be, from the fact that it is a tonic, and in the various forms of dyspepsia, constipation, or diarrhoea, connected with atony of the visceral muscular coat, the Mist. Pepsinæ Co. c. Bismutho is a very valuable remedy. In the *exhausting purging of Phthisis*, accompanied with night sweats and restlessness, Dr. MATHEWS, of Nantwich, has used it with marked and appreciable effect.

Price (in England) 10s. 6d. per pound.

Physicians will oblige, when ordering Mist. Pepsinæ Co. c. Bismutho, by writing Mist. Pepsinæ Co. (Hewlett's).

Packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., and 90-oz. Bottles.

### LONDON MEDICAL RECORD REPORT.

MISTURA PEPSINÆ COMPOSITA CUM BISMUTHO.

"This combination of Messrs. HEWLETT is one which has been extensively tested, and with good results. It is justly popular in the profession as a very valuable and effective combination. It serves not only to improve *apepsia*, but to lessen the gastric pain and to facilitate difficult and painful digestion, without setting up any evils of its own. It is a very good crutch for persons of weak stomach to lean on."—January 15th, 1881.

**C. J. HEWLETT & SON,**  
MANUFACTURING CHEMISTS,  
40, 41 & 42 CHARLOTTE STREET, LONDON, E.C. [Established 1832.]

YARDLEY & CO'S  
GENUINE  
TRANSPARENT  
SOAP

EACH TABLET IS BY A  
NEW PATENT PROCESS INDELIBLY  
BRANDED RIGHT THROUGH

THE PUREST AND BEST  
THAT CAN  
POSSIBLY BE MADE.

Unsurpassed for the Complexion—  
Excellent for Shaving, and unrivalled  
as a Toilet Soap.

SCENTED TABLETS, 6d. each;  
UNSCENTED, 4d. each;  
SHAVING STICKS, 6d. each.



# Soziodol

(TROMMSDORFF)

AN ODOURLESS SUBSTITUTE FOR IODOFORM.

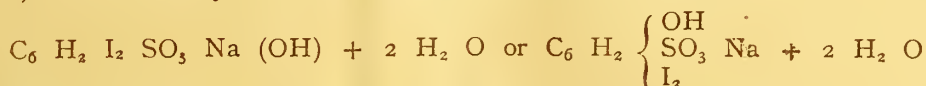
## CHEMICAL PROPERTIES.

The use of Iodoform being rather troublesome, owing to its abhorrent odour, attempts have frequently been made to discover an odourless substitute, which would be as serviceable therapeutically as Iodoform.

After several years devoted to experiments I have finally succeeded in producing a substance which fully answers all expectations, and has rendered in many cases excellent services when other antiseptics have failed. The substance referred to is Soziodol, or Di-iodoparaphenolsulphonic acid.

Soziodol is a compound of substances known to be powerful antiseptics, viz., Iodine (54%), Carboic Acid (20%), and Sulphur (7%).

Soziodol is most conveniently used in the form of the acid salts of Di-iodoparaphenolsulphonic acid, because Soziodol itself is comparatively insoluble, while the salts, such as Sodium-Soziodol, dissolve easily. This acid Sodium salt has the formula :



## CHARACTERISTICS OF THE SALTS.

Sodium-Soziodol occurs in colourless tubular crystals, which dissolve easily in water or glycerine at an ordinary temperature, to the extent of about 1 in 12. The glycerine solution remains quite unchanged when exposed to sunlight, but the aqueous solution slowly alters its colour on exposure.

Potassium-Soziodol dissolves only to a slight extent in water and glycerine, these acids dissolving only about a fiftieth part of their weight of the salt. This property makes the potassium salt preferable to the Sodium salt in the treatment of cases which require the application of dusting powders, etc., because of the greater duration of their efficacy; the effects of both salts are, however, the same.

Soziodol has been applied not only in the solution, but in combination with Talc, Lanolin, Sugar of Milk, and with much success, in the pure state.

Soziodol is **PERFECTLY ODOURLESS**, and experience has shown that it is **WITHOUT ANY INJURIOUS AFTER-EFFECTS WHATEVER**, so that it seems to be entitled to prominent rank among antiseptics.

The Salts of Soziodol have given not only excellent results in the treatment of obstinate diseases of the skin, chronic catarrhs of the nose, etc., but are extremely efficacious in the treatment of diseases of the generative organs, such as gonorrhœa and syphilis. In antiseptic surgery generally they have been found extremely useful, **PROMOTING EXTREMELY WELL THE PROCESS OF HEALING**.

The chemical nature of di-iodoparaphenolsulphonic acid permits of combinations with almost every metal, opening thus a vast field for therapeutic treatment, and enabling the physician to combine the action of certain metallic bodies with that of the antiseptic substance proper.

Besides the Sodium and Potassium Salts, I manufacture also the Aluminium, Magnesium, Lead and Zinc Compounds of Soziodol, which are easily soluble. Also the Ammonium, Barium, Mercury and Silver Salts, which are difficultly soluble.

After the extensive experiments which have been made in hospitals, etc., with these compounds, there remains no doubt that the salts of Soziodol are excellent antiseptic substances and that they are an invaluable addition to materia medica.

**H. TROMMSDORFF,**

Manufacturing Chemist, **ERFURT.**

Sole Agent—Frederick Boehm, 27, Billiter Sq. Bldgs., London, E.C.



## CLINICAL REPORTS ON THE THERAPEUTIC PROPERTIES OF

# SOZOIODOL.

(TROMMSDORFF)

By Dr. OSCAR LASSAR, Berlin, Private Clinic for Cutaneous Diseases.

*"THERAPEUTISCHE MONATSHEFTE," November, 1887.*

### POTASSIUM-SOZOIODOL.

The number of applications addressed to us by the manufacturers of therapeutic substances becomes almost overwhelming. It seems that certain people, apparently through the influence of some large manufacturers, consider our hospitals merely as a field for trials of a mercantile interest, in sending us almost every week a new medicine, said to be infallible against all skin diseases, with the suggestion to submit these substances to a careful but speedy examination, and, as a result, to recommend their use.

However desirable this collaboration may be, it is surely to be treated with caution, in order to put a check, as far as possible, to the invasion of proprietary articles.

It is quite another thing, on the contrary, when we receive from a competent person, a chemical product, likely to acquire great importance on account of its inherent qualities, and to this category belongs a substance called **Soziodol**, manufactured by the firm **H. Trommsdorff, Erfurt**, which comes to me as a substance in the shape of white crystals.

A specimen of this substance was submitted to me some time ago, but it was undoubtedly so contaminated with by-products, that it would not act without irritating, which circumstance is essential for every medicament for cutaneous diseases, for, although the artificial irritation of the skin forms a part of our Therapeutics, the fact is not to be lost sight of that the degree of irritation ought to be controllable, and subject to any graduation, at discretion.

**Soziodol** contains three of the most efficacious antiparasitics, viz., Iodine (54%), Carbolic acid and Sulphur, and is the Potassium salt of di-iodoparaphenolsulphonic acid.

Its easy solubility in water or glycerine, and the fact that its combination with any of the usual vehicles does not affect its general character, are in its favour, and, as **IT IS QUITE ODOURLESS** and indestructible by the effects of light, it deserves to be preferred to the majority of the other Iodine products, especially to Iodoform.

Some trials made with **Soziodol** soon showed that it is well sustained by the skin, either in a healthy or diseased condition. In consequence, Dr. Isaac, one of my assistants, undertook to study the product in the hospital as well as in the laboratory, and the respective results will be published in a few months hence.

The comparison of new methods of treatment with those hitherto practised, is, perhaps, nowhere more difficult than in skin diseases; nevertheless, it may now be stated that **Soziodol** is to be considered a very useful and valuable therapeutic agent, which I highly recommend to my professional brethren.

**Soziodol** is applied either pure or in mixture, just like Iodoform. In dusting-powders or pastes (5% to 10%) with Zinc, Starch, Vaseline or Lanolin, it causes the irritated and inflamed skin to peel mildly without any reaction, and exercises an apparently beneficial influence on wounds, eczema (recent or inveterate) herpes squamosus, herpes tonsurans, impetigo and ulcers.

The paste (10%) is used with success against tetter of the beard and seems to be valuable in the treatment of mycoses proper.

Dressings with **Soziodol-Talc** for sores and pastes (1—10%) against inflammations of the skin, have proved so successful, that, in many respects, **Soziodol** can certainly compete with Salicylic acid, while, unlike that substance, it may be applied in a concentrated state without creating artificial inflammation.

Sole Agent—Frederick Boehm, 27, Billiter Sq. Bldgs, London, E.C.



# CLINICAL REPORTS ON THE THERAPEUTIC PROPERTIES OF

## **SOZOIODOL.**

(TROMMSDORFF)

By Dr. HOPMANN, Cologne.

### SODIUM-SOZOIODOL.

I have used Soziodol pure, or mixed in various proportions with powdered boric acid, for insufflations into the nose, mouth, and larynx, sometimes even into the tracheal vessels, in cases where formerly Iodoform was employed.

The crystals of Soziodol, when powdered, are very much like powdered boric acid, and adhere very easily to the mucous membrane, and especially to sores.

Its application does not at all annoy most patients, but with some (especially those affected by tuberculous or syphilitic sores, etc.) Soziodol smarts more or less, but only for a short time.

As the substance dissolves pretty easily in water (solutions at the rate of 5% remain unchanged at an ordinary temperature), it slightly cauterizes the surface of sores, &c., but does not adhere so long as Iodoform; on the other hand it is absolutely odourless, and, as far as my experience goes, it acts **WITHOUT ANY SUBSEQUENT INJURIOUS EFFECTS**, and its local effect is stronger and more extensive than Iodoform in the generation of sound granulations.

Soziodol has the same antiseptic success as Iodoform, except the duration of influence, which, with the latter substance, lasts considerably longer.

In my opinion Soziodol is a valuable auxiliary for healing wounds after operations, etc.; it constitutes a very valuable addition to our materia medica and surpasses Iodoform by its promptitude of action in syphilitic, tuberculous and scrofulous ulcerations.

Cologne, January 12, 1888.

(So far as the protracted effect of Iodoform is concerned, it is equally easily obtained by the use of Soziodol in the form of Potassium-Soziodol instead of the Sodium salt, the former being absolutely free from any cauterizing or irritating effect.)

By Dr. O. VOSSEN. Aix-la-Chapelle.

Referring to the treatment with Soziodol, I beg to inform you that Mr. O. R., aged 49 years, whose right lower jaw bone had to be resected on October 25th, 1887, for malign tumours, combined with swelling of the glands of the neck, took internally, since February 15th, Sodium-Soziodol in 1.5 Gram powders thrice a day.

The tumours and swelling of the glands decreased. The weight of the patient, which from 192lb. had decreased to 176lb. is now increasing. Appetite and sleep are good and the general state of health excellent.

This patient took up to date about a hundred Grammes of Sodium-Soziodol **WITHOUT ANY INJURIOUS EFFECT MANIFESTING ITSELF.**

The treatment is continued.

Aix-la-Chapelle, April 15, 1888.

Sole Agent—Frederick Boehm, 27, Billiter Sq. Bldgs., London, E.C.



## CLINICAL REPORTS ON THE THERAPEUTIC PROPERTIES OF

**SOZOIODOL.**

(TROMMSDORFF)

By Dr. M. A. FRITSCHÉ, Berlin,

*A Specialist for Diseases of the Nose, Mouth, Larynx and Lungs.*

I have used Sozoiodol in a great number of cases in my hospital as well as in town, and used at first the Sodium and Potassium salts.

Later on I used Zinc-Sozoiodol and Mercury-Sozoiodol, mixed with sugar of milk.

A great variety of cases were submitted to treatment with Sozoiodol, and the results obtained were on the whole extremely satisfactory.

The Sodium and Potassium salts were of great efficacy in the treatment of all catarrhs of the respiratory track (nose, mouth, and larynx), which were associated with a tendency to drying up of the secretion, or in which the secretion was solid and viscous; also in dry or atrophic catarrh of the nose in its various shapes, Ozæna, (with or without sores) Laryngitis sicca, and analogous diseases. In these cases the secretion was liquefied, and the bad odour existing with Ozæna disappeared more or less under the use of the Sozoiodol.

The sores granulated very well, and the mucous membrane looked more healthy, so that in a great number of cases I succeeded in removing the disease after treatment of a more or less short duration.

Insufflations of Sodium-Sozoiodol or Zinc-Sozoiodol have proved very efficacious in hypertrophic catarrhs of the nose, the inflammation of the mucous membrane decreasing and the breathing was consequently alleviated.

The application of Sozoiodol salts after operations in the mouth and nose was followed by an increased tendency to heal, very likely in consequence of the aseptic properties of the Sozoiodol compounds.

Tuberculous ulcers in the larynx and mouth began to clear and to granulate after the application of Zinc-Sozoiodol, and made considerable progress towards healing.

Mercury-Sozoiodol proved very successful in several most inveterate cases of Ozæna, where every other medication had failed, and in cases of Syphilis of the nose and larynx—even in its tertiary forms in the nose and on the tongue—the ulcers showed a **STRIKING TENDENCY TO HEAL.**

The Sozoiodol salts may therefore justly be considered a precious addition to our materia medica, especially for the treatment of diseases of the nose and larynx.

Berlin, February 21, 1888.

FOR SAMPLES, QUOTATIONS AND ALL PARTICULARS APPLY TO:—

**MR. FREDERICK BOEHM,**

**27, Billiter Square Buildings,  
LONDON, E.C.**

Sole Agent for the United Kingdom and the Colonies.



# SOZIO & ANDRIOLI,

*Late Cresp-Girard Fils,*

STEAM WORKS AT GRASSE, FRANCE.

ESTABLISHED 1757.

Raw Materials for Perfumery, Essential Oils,  
Pomades, Almond Oil, Olive Oil, Floral Waters, &c.

## ANNUAL REPORT.

June, 1888.

IN submitting to our Friends the following Report of our Annual Production of Essential Oils, as well as of the prospects of this year's crop, we venture to hope that the information we are about to furnish may be of some value to them and prove a useful guide when making their purchases for the coming season.

By introducing into our Works the latest inventions of Chemistry and Mechanical Art, we did not spare trouble or expense, and may now safely say that our appliances are second to none in this town.

We are the successors to the firms of

**CRESP-GIRARD FILS, and JEAN ARTAUD,**  
(Established 1757.) (Established 1703.)

During the last few years we have considerably enlarged and improved our Plant, and are now in possession of the very best Machinery obtainable for cutting, grinding, and dressing the raw materials used in the manufacture of Essential Oils.

To enable us to supply our friends with the very best qualities, and, at the same time, at the lowest possible prices, we have made arrangements with the largest houses abroad to supply us direct with all those exotic products required in our Manufactory.

Besides this, we have been very fortunate in placing contracts for large quantities of Flowers grown in the best situated parts of our District and nearest possible to our Works, whereby we are enabled to use the Flowers while quite fresh for the production of Pomades. To this process we devote particular attention, and all the care necessitated by the delicacy of these products.

The intense cold which prevailed in the South of France as well as in the whole of Europe during the last two winters has been very disastrous to the Plants and has done a great deal of damage to our cultivations.

### Sole Agents—

Frederick Boehm, 27, Billiter Sq. Bldgs, London, E.C.  
Liebman & Butler, 93, Pearl St., & 58, Stone St., New York, U.S.A.



## SOZIO & ANDRIOLI, GRASSE.

### *Orange Blossoms*

Being used for so many purposes, play a very important part in our Trade. The Trees have greatly suffered by the severe frost of last Winter, which, in fact, has killed a large number of them. The prices of Orange Blossom have risen considerably; and, in consequence, all Orange Flower products, specially Neroly, command much higher prices than last year. In spite of these most unfavourable circumstances, in a position to compete successfully in best quality Neroly, having in good time secured a sufficient quantity of Flowers.

### *Roses.*

During recent few years this flower has been cultivated in the neighbourhood of Grasse to a much larger extent than previously. The Plants have resisted the influence of the weather, and the Crop may be considered an abundant one. Rose Pomades and Rose Waters are of extremely good quality this year. Our present production of Otto of Roses is much larger than that of 1887.

### *Geranium*

Is much valued by Perfumers and Soapmakers, on account of its fine scent and abundance; which has drawn special attention to this article, and greatly enlarged our production.

### *Violets.*

Though this flower is from year to year cultivated to a larger extent, this year's Crop has been a very poor one. Flowers have fetched twice the price of last year, and the yield is not considered sufficient to satisfy the needs of the current season.

### *Cassia Flowers*

Are extremely scarce, and have realised immense prices. The whole of the production of both Pomade and Oil have already been disposed of.

### *Jonquil.*

This flower's products, though small in quantity, are of extraordinary good quality.

### *Jasmin, Tuberose, Reseda*

Will only be gathered and distilled during July, August and September. There are good prospects, as far as we can judge at present, the weather not having badly influenced these Plants.

### *Geranium, African.*

In consequence of the very low prices of last year, many African growers have given up cultivating this Plant, and as the cold has done much harm to the cultivations, prices have risen considerably. The demand for Geranium Oil is increasing every year, Soapmakers

### Sole Agents—

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## SOZIO & ANDRIOLI, GRASSE.

now using it freely. To obtain a really good and pure article we have made an arrangement with one of the principal landowners of the Province of Constantine, who has engaged himself to distil solely for us. There are no proper distilleries of Geranium Oil in Africa. The peasants and growers use a small distilling apparatus on the field.

### *Geranium, French.*

The prospects for this year's Crop in our neighbourhood, which takes place in September and October, are very unfavourable, and we expect higher prices. We strongly recommend to our friends our Rose Leaf Geranium. Its similarity to genuine Otto of Roses as well as its fragrance make it specially valuable to Manufacturers of Toilet Soaps.

### *Lavender Oil.*

There is no stock of the better qualities in Grasse, last year's Crop being a very small one, and the demand is continually increasing. It is a well-known fact that the Oil distilled from Flowers grown in the Département des Alpes Maritimes is by far the best, and much superior in quality to that made of flowers, obtainable from the neighbouring Départements such as Hautes-Alpes, Basses-Alpes, Drôme and Vaucluse. The articles produced in the latter districts, commonly called Lavande forte cannot, however, be compared with the Lavande des Alpes-Maritimes. The Lavender Oil being distilled at the Plantations and not in Grasse, we have to send our workmen, with the so-called Alambics de Campagne (field distilling apparatus), to the mountains where the Flowers are grown. Thereby we are well in a position to supply the very best and guaranteed pure qualities, which are already well-known and much liked by our Customers. The distillation takes place in August and September.

### *Aspic*

Will be distilled in September; we expect to see much higher Prices.

### *Peppermint Oil.*

The French Peppermint Oil has undoubtedly the best and mellowest flavour, and is free from the strong and bitter taste common to those qualities produced in other parts of the world. For that reason our Peppermint Oil is largely used by Perfumers, specially for all kinds of Dentifrice, as well as by Confectioners and Manufacturers of Liquor, &c. The Peppermint Plant is now very extensively cultivated in our District; last season was favourable to the Plants and the Crop abundant.

### *Rosemary.*

Prices firm with an upward tendency.

### Sole Agents—

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Liebman & Butler, 93, Pearl Street, & 58, Stone Street, New York, U.S.A.



## SOZIO & ANDRIOLI, GRASSE.

### *Thyme.*

The little produced last year has been sold long ago, and as they did at last May was not at all satisfactory, Prices are still very high.

### *Iris.*

Convinced as we are that an *Iris* which shows the full fragrance of the original root will be of great advantage to Soapmakers and Perfumers, we have made it a point to find a way of producing such an oil, and are able to say that our studies and endeavours in this respect have been crowned with success. We have, on scientific principles, constructed special machines and succeeded in preparing a very concentrated Oil, which, in consequence of its concentration, crystallizes at 12° Fahrenheit, and becomes liquid again at 20°. Our product is of a very aromatic quality, and has the real scent of Violets, without showing the disadvantage of the concrete Oil in which the Violet scent is always more or less affected and changed for the worse. Besides, the quantity and abundance of the latter are not at all so great as the very low price might lead one to believe. Having bought very large quantities of root before the considerable advance in Prices which took place quite recently, we can still retain our old Prices.

### *Rosewood (Bois de Rhodes)*

Is now used in much greater quantities than formerly for manufacturing Perfumes and Toilet Soaps, on account of its similarity to Turkish Geranium and its comparatively cheap Price.

### *Patchouly.*

The cultivation of *Patchouly* leaves in India has, in consequence of the high prices obtained last year, been greatly extended and *Patchouly* leaves can now be had at lower Prices. *Patchouly* Oil is one of our Specialities, and by distilling it on a very large scale we can offer this article to advantage and at much lower Prices than last year.

### *Cloves.*

We only distil Bourbon Cloves which are better in flavour and contain a larger amount of oil than Zanzibar Cloves.

## Messrs. Sozio & Andrioli

Wish to introduce into this market the very best and purest qualities only, and hope to be supported in this endeavour by the Trade.

For SAMPLES and QUOTATIONS and ALL PARTICULARS apply to the

Sole Agents:—

MR. FREDERICK RIEHM,

27, Billiter Square Buildings, LONDON, E.C.

Messrs. LIEBMAN & RUTLER,

93, Pearl Street, & 58, Stone Street, NEW YORK, U.S.A.



**READ BOTH SIDES OF THIS LEAFLET.**

**DO NOT MISS A SALE!**

IF YOU HAVE AN ENQUIRY FOR

**PROSSER'S ALTACID**

For Rectifying, Preserving, and Brightening

**SOUR, TART, OR FLAT BEER,**

It will give satisfaction and ensure a regular customer—

**In Tins, 1s. 6d., 2s. 6d., & 7s. 6d. each.**

It is well Advertised and kept in stock by

BERCLAY & SONS, London.

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**BRANFORD'S SILVER COATED PILLS**

**FOR NEURALGIA, TOOTHACHE, AND HEADACHE,**

May also be obtained through the above houses.



# NO MORE TENDER FEET.!!

EASILY APPLIED,  
CLEANLY  
AND  
HARMLESS.

DOES NOT STAIN  
THE SKIN  
OR INJURE  
THE CLOTHING.

In Tins,

**HUTTON'S**  
Absorbent  
**FOOT POWDER**

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1/-

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[REGISTERED.]

"SAMPLE PACKET ONE PENNY."

THE BEST  
TOILET  
AND  
NURSERY POWDER,  
DOES NOT  
CAKE ON  
OR  
IRRITATE THE SKIN.

1s. & 6d.

This preparation is guaranteed to prevent and cure overheated and tender feet in a natural manner without the slightest injury to health. It possesses in the highest degree those antiseptic and absorbent properties qualified to preserve the feet in a cool and healthy condition, at the same time effectually depriving them of any objectionable odour.

*The following Testimonials speak for themselves:—*

MINSTERLY, March 2nd, 1886.

DEAR SIR,—Your ABSORBENT FOOT POWDER is an excellent preparation. After suffering with tender feet for years (making walking in warm weather a misery) I was persuaded to try your powder. I can now walk 20 miles without the least inclination to gall or blister. I am, Yours faithfully, W. H. TAYLOR.

Another says:

EATON CONSTANTINE, SALOP, November 1st, 1886.

DEAR SIR,—Please send a further supply (6 tins) of your FOOT POWDER. I find it far better than Violet Powder or Fuller's Earth for use in the Nursery: it allays all chafing and irritation at once. I am extremely pleased and cannot recommend it too highly. Yours truly, E. PREECE.

Through all Chemists and Patent Medicine Dealers.—**WHOLESALE AGENTS:—**

LONDON:—BARCLAY & Sons, 95, Farringdon Street, E.C.; NEWBURY, EDWARDS, MAW, SON, and THOMPSON; HOVEDON & SANGER.

BIRMINGHAM:—Southall & Co.; Crook & Taylor. LIVERPOOL:—Evans, Sons & Co. BRISTOL: Ferris & Co. LEEDS:—Goodall, Backhouse & Co. MANCHESTER: Mottershead & Co. NEW-CASTLE-ON-TYNE:—Ismay & Sons. DUBLIN: Bewlay & Draper. EXETER:—Evans, Gadd & Co. YORK & EDINBURGH:—Raimes & Co. BRADFORD:—Stephenson Brothers.

Beware of Imitations: it is important to have a pure and harmless preparation.

Proprietors—**TYLEE & CO.**, Manufacturing Chemists, Bath, England.

## TYLEE'S ELECTRIC SILVERING CREAM

At once restores worn or tarnished Plated Goods, by depositing a coat of **Pure Silver** on them.

Warranted free from Mercury.

Most Useful for Harness Mounts.

Bottles 1s, 2s. 6d., and 4s. 6d.

Wholesale and Export:—BARCLAY & SONS, 95, Farringdon Street, London, E.C.

Manufacturers and Proprietors—TYLEE & CO Manufacturing Chemists, Bath, England.

THE ABOVE MEET WITH A READY SALE.



**RIGHT PRIZE MEDALS AWARDED.**

# GOODALL'S CUSTARD POWDER

Delicious to Plum Pudding.

Delicious to Stewed Rice.

Delicious to all kinds of Puddings.

Delicious to everything.

Delicious to Jam Tarts.

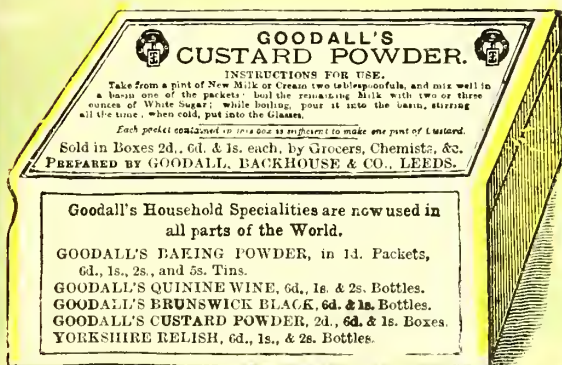
Delicious to all kinds of Fruit.

Delicious to all kinds of Fruit Pies.

Delicious alone.

Unequalled for the purposes intended. Will give the utmost satisfaction if the instructions given are implicitly followed. Give it a trial.

**In Boxes, 2d., 6d., and 1s. each.**



**IN LESS  
TIME  
AND AT  
HALF  
THE  
COST**

# GOODALL'S EGG POWDER



is acknowledged the only real substitute for eggs yet discovered. Its action on puddings, &c., resembles that of the egg in every particular, enriching them in flavour; also rendering them most wholesome and nutritious. One penny tin will go as far as four eggs, and one sixpenny tin as far as twenty-five, thus making the cost one-fourth that of eggs.

**PENNY  
TIN  
GOES  
FOR  
FOUR  
EGGS.**



**ONE  
SIXPENNY  
TIN WILL GO  
AS FAR AS  
25 EGGS.**

**GOODALL, BACKHOUSE & CO. LEEDS.**



EIGHT PRIZE MEDALS AWARDED!

# GOODALL'S BAKING POWDER.



THE BEST BAKING POWDER IN THE WORLD.

Warranted Pure, Free from Alum, and all other Injurious Ingredients.

UNRIVALLED FOR EFFICIENCY  
AND PURITY.  
RECOMMENDED BY ALL WHO  
HAVE TRIED IT.  
DEFIES COMPARISON.

MANUFACTURED FROM THE  
PUREST INGREDIENTS.  
TESTIMONIALS INNUMERABLE.  
DISPENSES WITH BREWERS'  
YEAST.  
GIVE IT A TRIAL.

The cheapest because the best: indispensable to every household; an inestimable boon to housewives. Makes delicious puddings without eggs, pastry without butter, and beautiful light bread without yeast. One trial will convince the most sceptical of its superiority over others.

Sold everywhere, in 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

## TESTIMONIAL.

4, Albion Place, Blackfriars Road, London.  
Gentlemen,—I have given your Baking Powder a fair trial, and can confidently say it is the best I have used—far superior to others. I made a delicious loaf with it, using the quantity given in directions; and to pastry, cakes, &c., it is a wonderful improvement in the manufacture—in fact, it is an indispensable article in every house where there is a family, as it saves eggs and butter. I am pleased to forward my testimony on the great qualities of it, and consider—what you rightly say in your advertisements—it is the best in the world.—I remain, your obedient servant, H. T. COOMBER.

# GOODALL'S BLANC MANGE POWDER



Is acknowledged by all to be the most convenient and economical preparation ever introduced, as, by its use, a most Rich and Delicious Blanc Mange may be produced in a few minutes, at a trifling cost. It is rapidly coming into general use, displacing entirely the old method of preparing them, and may be had of various flavours, *i.e.*, Raspberry, Strawberry, Lemon, Almond, and Vanilla, Coffee and

Chocolate. A single trial will suffice to pronounce it more than satisfactory.

Sold in Boxes, 6d. and 1s. each, by Grocers, Oilmen, Chemists, Italian Warehousemen, Ship Store Dealers, &c.

# GOODALL'S GINGER BEER POWDER

THREE GALLONS OF THE BEST GINGER BEER  
IN THE WORLD FOR THREEPENCE.

The most valuable preparation for the production of a delicious and invigorating beverage.



THIS Powder stands unrivalled, possessing valuable medicinal properties to a very large extent. It is not only cooling in its nature, but also an invaluable stomachic, thereby rendering it the most wholesome and perfect beverage ever discovered for both winter and summer.

It is easily made, and acknowledged to be by far the cheapest and best Ginger Beer Powder ever offered to the public.

**CAUTION.**—To prevent disappointment be sure to ask for GOODALL'S GINGER BEER POWDER, as most of the so-called powders are made up of inferior articles, and contain little or no Ginger.

Sold in Packets, 3d. and 6d. each.

Manufacturers—GOODALL, BACKHOUSE & CO., Leeds.



# RIGHT PRIZE MEDALS AWARDED!

YORKSHIRE	RELISH	{	The Most Delicious Sauce in the World.
YORKSHIRE	RELISH	{	6,000,000 Bottles Sold Annually.
YORKSHIRE	RELISH	{	Enriches Hot Joints, Soups, Stews, &c.
YORKSHIRE	RELISH	{	Delicious to Chops, Steaks, Fish, Poultry, &c.
YORKSHIRE	RELISH	{	Blends Admirably with all Gravies.
YORKSHIRE	RELISH	{	Agrees with the Most Delicate Persons.
YORKSHIRE	RELISH	{	Makes Cold Meat a Luxury.
YORKSHIRE	RELISH	{	Possesses a Pleasing Piquancy.
YORKSHIRE	RELISH	{	Every Dish is Improved by its Addition.
YORKSHIRE	RELISH	{	Suitable to the Invalid's cup of Broth.
YORKSHIRE	RELISH	{	Should be on every Sideboard.
YORKSHIRE	RELISH	{	Epicures pronounce it the Best Sauce.
YORKSHIRE	RELISH	{	No better Sauce can be Made.
YORKSHIRE	RELISH	{	A Household Word.
YORKSHIRE	RELISH	{	Known all over the World.

## THOUSANDS OF TESTIMONIALS IN ITS FAVOUR.

men,—I have not the pleasure of knowing you ; never met you—never saw you ; but still for a length of time my sideboard has never lacked your celebrated Yorkshire Relish ; and it is a very great pleasure to forward this testimonial in its favour, provided you think it worthy of acceptance.

My ordinary habits as a writer for the Magazines, &c., very often make me exceedingly peevish by meals ; but still, no matter what I have, your Yorkshire Relish always brings me to. I have a hot joint that it enriches ; sometimes cold meat that it makes exceedingly tasty and palatable ; with soup it is charming ; and sometimes, when the press is waiting for matter, I can very good makeshift for dinner with a roll steeped in it ; so that in each and every sense of the word I cannot speak too highly of that which I find so good, so useful, and so cheap. If it is to be productive of good, you are quite at liberty to publish this—Yours truly,

The Author of "Grace Darling," "Harriet Stanton,"

Goodall, Backhouse & Co., Leeds.

"The Wreck of the Royal Charter," &c.

# Shilling Cookery Book for 1d.

Forwarding your name and address, with one penny stamp (to pay postage) to GOODALL, BACKHOUSE & CO., LEEDS, you will be presented with a copy of

## "GOOD THINGS,"

Made, Said, and Done, for every Home and Household.

Full of personally tested recipes, and meets a want not met by the majority of Cookery Books in Circulation.

Merchants will oblige us by writing "Good Things" on envelope, to avoid delay.

Manufacturers—GOODALL, BACKHOUSE & CO., Leeds.



**EIGHT PRIZE MEDALS AWARDED**

THE MOST DELICIOUS  
CHEAPEST & BEST  
SAUCE  
IN THE WORLD

SIX MILLION  
BOTTLES  
SOLD ANNUALLY

THE CELEBRATED

**YORKSHIRE RELISH**

HAS THE  
LARGEST SALE  
OF ANY  
SAUCE IN  
THE WORLD

SOLD BY  
ALL GROCERS  
DRUGGISTS &  
ITALIAN  
WAREHOUSES



IN 6D IS & 2S  
BOTTLES

IN 6D IS &  
BOTTLES

**GOODALL, BACKHOUSE & CO. LEEDS.**



# Edwards' *Dessicated* Soup



*In Quarter, Half, & One Pound Canisters, & One Ounce Packets.*

## EDWARDS' WHITE (VEGETABLE) SOUP

THE Manufacturers beg to direct the attention of the Trade to the above articles, now commanding a ready and remunerative sale. They are put up in a neat and attractive form.

11lb. Tins in Boxes of 3 dozen;  $\frac{1}{2}$ lb. Tins in Boxes of 2 and 4 dozen;  $\frac{1}{4}$ lb. Tins in Boxes of 3 and 6 dozen; 1oz. Packets in Boxes of 6 and 12 dozen, in Cases of 12 gross.

Tins and packages free, carriage paid on two cwt. orders. A liberal supply of showcards, glaciers, and printed matter in any language, consisting of circulars, Medical testimonials, Press opinions, and counter bills with name and address, sent with order.

These preparations have now come largely into use, in preference to flour, as a thickening and at the same time flavouring for Hashes, Stews, and Soups requiring a body, also as a GRAVY.

Samples, with Terms, Free on Receipt of Business Card.



# SOUPE CONCENTREE D'EDWARDS.

(EDWARDS' DESICCATED SOUP).

**N**OURRISSANTE, APPETISSANTE, ET AGREABLE AU GOÛT. Préparation desséchée consistant dans l'emploi des meilleurs légumes et de l'Extrait de Boeuf. Un délicieux bol de Soupe prêt en quelques minutes. Inestimable comme base pour toutes les Soupes brunes. Excellente pour augmenter la force des Ragoûts, des Jus, des Sauces, et aussi employée avantageusement pour les Pâtés, etc.

## MANIERE DE L'EMPLOYER.

**SOUPE.**—Mettez un verre et demi (verre de table) d'eau froide dans une casserole et délayez y un paquet d'environ une once; faites bouillir pendant 15 minutes, puis assaisonnez—on peut y ajouter quelques gouttes de Sauce.

**SOUPE INDIENNE (MULLAGATAWNY).**—Pour obtenir cette Soupe ajoutez une petite cuillerée à café de curie (curry powder) à un litre de Soupe préparée comme ci-dessus.

**SOUPE AUX TOMATES.**—On peut faire cette Soupe en ajoutant des Tomates fraîches ou même conservées à la Soupe ordinaire ci-dessus.

**CROQUETTES.**—Mettez une once de la Soupe concentrée d'Edwards dans un bol, versez dessus un demi verre d'eau bouillante, couvrez et conservez chaud pendant 15 minutes puis ajoutez une once de mie de pain et assaisonnez. Mélangez bien le tout, liez-le avec un oeuf bien battu et faites en une pâte épaisse. Faites six boules de ce mélange trempez-les dans un oeuf battu, passez-les de mie de pain et faites les frire d'un beau brun.

**PÂTE DE POMMES DE TERRE.**—Mettez deux onces de Soupe concentrée d'Edwards dans un bol, versez dessus un verre d'eau bouillante couvrez et tenez chaud pendant 15 minutes; puis ajoutez 2 onces de mie de pain, mélangez bien le tout, mettez dans un plat creux et recouvrez d'une couche épaisse de pommes de terre bien écrasées. Faites cuire au four modéré.

**CROQUETTES OU RISSOLES DE POMMES DE TERRE.**—Faites une pâte épaisse avec 2 onces de Soupe comme indiquée ci-dessus, mais sans mie de pain; divisez cette pâte en plusieurs parties que vous placez chacune entre des lits de pommes de terre bien écrasées, et faites cuire au four ou à la casserole avec du beurre ou du saindoux jusqu'à ce qu'elles soient d'un beau brun.

**RISSOLES.**—Préparez la Soupe comme dans la recette précédente et ajoutez de la mie de pain, mélangez bien le tout ensemble, divisez par petites parties que vous roulez dans de la pâte en forme de saucisses longues et faites cuire au four.

**JUS.**—Faites fondre la Soupe concentrée dans un bol avec un peu d'eau tiède, couvrez et placez près du feu pendant quelques minutes. Puis versez dans une casserole et ajoutez l'eau nécessaire pour l'épaisseur voulue, faites bouillir environ 10 minutes, mêlant bien.

**SAUCES.**—Toutes les Soupes et les Sauces ayant besoin de consistance peuvent être avantageusement épaissies par ces Soupes qui sont pour cet usage bien supérieures à la farine.

On peut aussi ajouter que ces préparations conviennent pour toutes les Soupes brunes et sont inestimables pour les Ragoûts. Ces Soupes peuvent être faites à l'avance et réchauffées quand on en a besoin sans que le goût s'en trouve altéré.

**N.B.**—En préparant la Soupe concentrée d'Edwards, faites attention à ne pas la laisser bouillir moins de quinze minutes et melez-la fréquemment.

Cette préparation se trouve chez tous les épiciers et marchands de comestibles en boîtes de 450, 225 et 115 grammes, et en paquets de 28 grammes.

## PRESS OPINIONS.

*From PROVINCIAL MEDICAL JOURNAL, May, 1887.*

We have received a report from our analyst respecting this Soup, which he reports upon as being palatable, highly nutritious, and containing beef and vegetables in a condition readily assimilable by the stomach.

*From HEALTH (Edited by Dr. Andrew Wilson, F.R.S.E.), 29th April, 1887.*

We have examined samples of these Soups, and find these products to be of high quality, of full nutritive strength, and to be well adapted for use by families; combined in suitable proportions to form a healthy dietetic article; one notable character is the agreeable taste and rich flavour.



# Edwards' Desiccated Soup.

**N**OURISHING, APPETISING, PALATABLE. Consists of the finest Vegetables and Beef in a dry state. A delicious basin of Soup in a few minutes. Invaluable as a basis for *all* Brown Soups, and a capital addition to Irish Stew.

## DIRECTIONS FOR USE.

**SOUP.**—To three-quarters of a pint of Cold Water in a saucepan stir the contents of a packet, or about one ounce; boil for fifteen minutes, then flavour to taste. A few drops of Sauce may be added.

**MULLAGATAWNY SOUP.**—This can be made by adding a small teaspoonful of Curry Powder to a quart of Soup prepared as above.

**TOMATO SOUP** may be made by adding fresh Tomatoes to the plain Soup as above. When these are not in season, canned Tomatoes or Tomato Conserves may be used.

**RISSOLES.**—Put one ounce of EDWARDS' DESICCATED SOUP into a bowl; pour on it a quarter of a pint of Boiling Water, cover and keep warm for fifteen minutes, then add one ounce of bread crumbs and seasoning to taste. Mix all well together, with one well-beaten egg, into a thick paste. Form the mixture into six balls, dip them into egg and bread crumbs, and fry them to a nice brown.

**POTATO PASTY.**—Put two ounces of EDWARDS' DESICCATED SOUP into a bowl, pour on it half-a-pint of Boiling Water, cover and keep warm for fifteen minutes; add two ounces of bread crumbs, mix well together, place it in a pie-dish, spread over it a thick layer of nicely mashed Potato. Bake in a moderate oven.

**POTATO RISSOLES.**—Form two ounces of the Soup into a thick paste by adding boiling Water as directed above, omitting the bread crumbs; divide it into several portions, each of which place between layers of nicely mashed Potatoes, and bake or cook in pan with butter or lard until brown.

**SAUSAGE ROLLS.**—Prepare the Soup as in last recipe, and add bread crumbs; mix well together, divide into several portions, cover with pastry in the shape of sausage rolls, and bake.

**GRAVIES.**—Blend the Desiccated Soup in a cup or basin with a little tepid water, cover, and place by the fire for a few minutes. Put it into a saucepan with the quantity of water necessary to make it of the proper consistency; boil about ten minutes, stirring well.

**SAUCES,** and all Soups requiring a body, may be most advantageously thickened with these Soups; being far superior to flour for that purpose.

Where time is limited, these Soups may be made when convenient, and can be warmed up again when required, leaving the rich flavour unimpaired.

**N.B.**—In preparing Edwards' Desiccated Soup, be sure you boil it—stirring frequently—for not less than fifteen minutes; if the fire be low, it may take a few minutes longer.

SUPPLIED BY WHOLESALE AND RETAIL CHEMISTS AND GROCERS EVERYWHERE,

**In 1lb.,  $\frac{1}{2}$ lb., and  $\frac{1}{4}$ lb. Canisters, and 1oz. Packets.**

## ANALYST'S REPORT.

SIR CHARLES A. CAMERON, *Professor of Chemistry and Hygiene, R.C.S.I.; Author of "Lectures on Health," &c., &c.,* having analysed EDWARDS' DESICCATED SOUP, reports:—

I have analysed specimens of the DESICCATED SOUPS prepared by Messrs. KING & Co. These Soups possess a very agreeable flavour and odour. They contain dried Celery and other pleasantly-flavoured Vegetables. They blend readily and completely with water, producing thereby, and in a few minutes, nutritious and palatable Soups. The Desiccated Soups may be preserved for a long time in any climate without loss of flavour. I can strongly recommend them.

CHAS. A. CAMERON.

LABORATORY, ROYAL COLLEGE OF SURGEONS,  
STEPHEN'S GREEN, DUBLIN.



# EDWARDS' WHITE

(VEGETABLE)

# SOUP.



**T**O meet a very general and increasing demand for a purely Vegetable Soup, Messrs. KING now introduce an article made entirely without Beef or Extract of Beef, forming of itself a delicious Soup, a basis or ground-work for all White Soups, and an excellent Sauce for Fish, &c. To the table of the Vegetarian, and all who desire to abstain from fleshmeats, this Soup must form a welcome and valuable addition.

### DIRECTIONS FOR USE.

Mix an ounce, or one large tablespoonful, of the Soup with just enough cold water to blend it.

Put on the fire a saucepan containing three-quarters of a pint milk and water, in equal proportions (skimmed milk may be used), bring gently to the boil, then add the Soup to the contents of the saucepan, and boil for twenty five to thirty minutes, stirring frequently. Strain, if preferred, before serving.

The yolk of an egg added has a good effect.

It may also be made entirely with water.

SOLD BY WHOLESALE AND RETAIL CHEMISTS AND GROCERS EVERYWHERE,

In 1lb.,  $\frac{1}{2}$ lb., and  $\frac{1}{4}$ lb. Canisters, and 1oz. Packets.

## SOUPE BLANCHE D'EDWARDS

(SOUPE MAIGRE AUX LEGUMES).

Afin de répondre à une demande générale et toujours croissante pour une Soupe composée uniquement de légumes, Messieurs King offrent maintenant un article fait entièrement sans Boeuf ou Extrait de Boeuf, et formant seul une Soupe délicieuse, un fonds pour toutes les Soupes maigres, et une Sauce excellente.

Pour la table de Végétériens et de tous ceux qui desirant faire maigre cette Soupe sera la bienvenue et augmentera la liste de leurs plats.

### MANIERE DE L'EMPLOYER.

Faites fondre une once ou une grande cuillère à bouche de cette Soupe dans la quantité suffisante d'eau froide pour la délayer. Mettez sur un feu doux une casserole contenant environ  $\frac{1}{2}$  litre d'eau et de lait en proportion égale (on peut se servir de lait écremé), quand ce mélange est prêt de bouillir ajoutez la Soupe au contenu de la casserole et faites bouillir pendant 25 à 30 minutes mêlant souvent; passez si vous le préférez avant de servir.

Un jaune d'oeuf ajouté alors sera d'un bon effet.

Cette Soupe peut aussi se faire entièrement à l'eau.

Cette préparation se trouve chez tous les épiciers et marchands de comestibles en boîtes de 450, 225 et 115 grammes, et en paquets de 28 grammes.

## FRED<sup>K</sup>. KING & CO., Limited,

SOLE MANUFACTURERS,

26 WARING STREET, BELFAST; & 3 TO 6 CAMOMILE STREET, LONDON, E.C.





# PRICE'S SPECIALITIES.

**GOLD MEDAL**

## PALMITINE CANDLES

THE FINEST LIGHT FOR DRAWING AND DINING ROOMS.

## Chamber Candles

**SELF-FITTING.**

EXPORT STEARINE  
AND  
PARAFFIN CANDLES.

DECORATIVE  
AND  
COLOURED  
CANDLES.



PRICE'S PATENT CANDLE COMPANY LIMITED.  
LONDON and LIVERPOOL.



# PRICE'S GLYCERINE

GUARANTEED CHEMICALLY  
PURE.



## NEW TOILET SOAPS

"Regina," "Princess" and "English Rose."

HIGH CLASS TOILET SOAPS.

## NIGHT LIGHTS.

PRICE'S NEW PATENT NO. 785 NIGHT LIGHTS

AND

PRICE'S CHILDS' NIGHT LIGHTS.

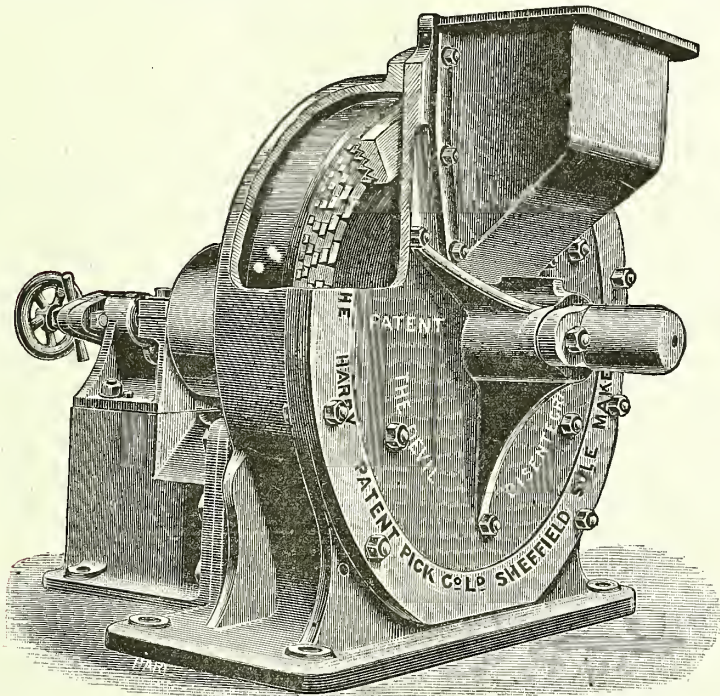
PRICE'S PATENT CANDLE COMPANY LIMITED,  
LONDON and LIVERPOOL.



# HAVE YOU SEEN THE "DEVIL"

## DISINTEGRATOR, MIXER, AND GRINDER?

It is the most valuable Machine FOR CHEMISTS ever introduced. It will Grind, Granulate, or Shred any Material—Animal, Vegetable or Mineral, AT ONE OPERATION, to any degree of fineness;



And is  
H CHEAPEST,  
S EFFECTIVE,  
and  
ECONOMICAL  
one of the kind  
in the Market.

It will also  
GRIND  
MORE MATERIAL  
in a given time  
THAN ANY OTHER  
MACHINE.

It is Cheap, Simple in Construction, and not liable to get out of repair. The Grinding Rings, which are the only wearing parts, can be replaced by a labourer, without it, at slight cost. Logging is absolutely impossible. The material ground is perfectly even, whether Ground to Powder or Granulated.

The following Table gives approximately the quantities of material the various sizes of Machines will deal with per hour:—

MATERIALS.	SIZES.			MATERIALS.	SIZES.		
	No. 1. CWT.	No. 2. CWT.	No. 3. CWT.		No. 1. CWT.	No. 2. CWT.	No. 3. CWT.
... ..	10	25	80	Coal (fine) ... ..	10	20	50
... ..	7	20	50	Cakes (of all kinds) ...	6	18	40
lte ... ..	5	18	40	Chicory ... ..	7	15	35
acene ... ..	10	25	60	Coffee ... ..	7	15	35
... ..	7	20	50	Cotton Seed ... ..	8	20	40
(fine) ... ..	3	20	50	Chalk ... ..	6	15	35
(medium) ... ..	5	35	90	Clay (wet) ... ..	—	20	50
(coarse) ... ..	7	40	110	Carrots ... ..	5	25	60
Refuse ... ..	7	20	50	Drugs .. ...	7	15	35
(Oak) ... ..	—	15	30	Furze ... ..	5	12	30
(Gentian) ... ..	2	5	15	Fenugreek ... ..	3	8	20
(fine) ... ..	3	10	25	Fullers' Earth ... ..	10	30	80
(coarse) ... ..	5	15	30	Fish (for manure) ...	7	20	50
... ..	3	8	20	Fire Clay ... ..	10	30	80
Lead ... ..	5	15	40	Flint ... ..	—	8	20
... ..	5	15	40	Guano ... ..	5	20	50
for packing) ... ..	4	9	20	Greaves ... ..	7	15	40
(fine) ... ..	2	5	12	Glass ... ..	5	15	35
ical Crystals ... ..	6	12	30	Glue ... ..	7	20	45
for Briquettes) ... ..	20	40	200	Gypsum ... ..	12	25	50



MATERIALS.				SIZES.				MATERIALS.				SIZES.			
				No. 1.	No. 2.	No. 3.						No. 1.	No. 2.	No. 3.	
				CWT.	CWT.	CWT.						CWT.	CWT.	CWT.	
Ginger	...	...	...	3	9	20		Peas	...	...	...	3	10	25	
Horns	...	...	...	2½	8	20		Paint Ores	...	...	...	6	15	30	
Hoofs	...	...	...	2½	8	20		Quartz	...	...	...	—	8	20	
Indian Corn	...	...	...	4	12	25		Rock Salt	...	...	...	10	30	80	
Indiarubber	...	...	...	½	3	10		Senna Leaves	..	...	...	¼	1	3	
Lime	...	...	...	10	25	60		Soda	...	...	...	10	30	80	
Lignite	...	...	...	8	18	40		Soapstone	...	...	...	9	25	70	
Litharge	..	...	...	10	25	60		Soap Powders	...	...	...	20	40	90	
Leather	...	...	...	½	3	10		Sago	...	...	...	9	20	45	
Logwood	...	...	...	5	12	30		Shells	...	...	...	7	20	50	
Locust Beans	...	...	...	10	30	60		Slate	...	...	...	7	20	50	
Manure	...	...	...	10	25	60		Slag	...	...	...	3	10	25	
Myrabolanes	...	...	...	5	15	40		Sulphur	...	...	...	7	15	35	
Marl	...	...	...	8	30	70		Shoddy	...	...	...	5	12	30	
Mica	...	...	...	5	15	35		Spices	...	...	...	7	18	35	
Ochre	...	...	...	7	20	45		Sugar	...	...	...	7	18	35	
Pitch	...	...	...	5	15	35		Turnips	...	...	...	5	25	60	
Plumbago	...	...	...	5	15	40		Tile Refuse	...	...	...	7	20	50	
Pumice Stone	...	...	...	10	25	60		Valonia Bark	...	...	...	7	18	40	
Pepper...	...	...	...	2	7	20		Wood	...	...	...	7	18	40	

No.	PRICE.	Belt required.	Diameter of Pulley.	Revolutions per minute.	Approximate Horse Power.	Diameter of Discs.	Approx. quantity per hour.	Total Weight.	Cubic Measurement.	Space.
1	£30	3 inches.	8 inches.	1000	2 to 6 H.P.	19 in.	5 to 20 cwt.	6 cwt.	16 cub. ft.	3 6 × 2 2
2	£60	5 "	12 "	900	5 to 12 "	29 "	20 to 50 "	18 "	52 "	5 0 × 3 2
3	£90	7 "	14 "	800	12 to 15 "	39 "	50 to 200 "	40 "	125 "	6 9 × 4 2

LARGER SIZES MADE WHEN REQUIRED.

THE ABOVE PRICES ARE FREE ON RAIL AT SHEFFIELD.

PACKING FREE.

Intending purchasers may see any material passed through the Machines at our works, or we shall be glad to grind samples sent to us and return the results to senders.

## TESTIMONIALS.

*The following is an unsolicited Testimonial from a firm of Dry Soap Manufacturers, who have tried various other makes of Disintegrators without success.*

"April 28th, 1888.

"We are quite satisfied with your Machine, and in all probability will require another and larger one. Let us know the cost of one as large again as the one we have."

*The Machine referred to is one of our smallest Machines, (price £30), and is grinding 2 to 3 tons of material per hour.*

"74, Market-Place, Sheffield, July 17th, 1888, and at 42, London Road.

"THE HARDY PATENT PICK CO., SHEFFIELD.

"Gentlemen,

"Your 'DEVIL DISINTEGRATOR' is, in my opinion, the grinder of the future. Its rapidity of action, the small space which it occupies, and its almost universal applicability, combine to make it a *sine qua non* in all modern grinding establishments.

"I have seen it reduce one cwt. of moist Gentian root to coarse powder in six minutes. The simplicity of the apparatus by which the degree of comminution can be adjusted is in itself a marvel. It is very desirable in the manufacture of pharmaceutical preparations to be able to reduce to powder moist materials, as in this way only can the volatile principles of drugs be retained in their powders, and therefore in the preparations made from them. It is also advisable in preparing drugs for exhaustion to be able to produce a powder of any degree of fineness. Your machine supplies these desiderata in almost absolute perfection.

"G. T. W. NEWSHOLME."

## Sole Makers:

# THE HARDY PATENT PICK CO., LTD.,

Engineers, and Mining Tool Makers,

## SHEFFIELD.

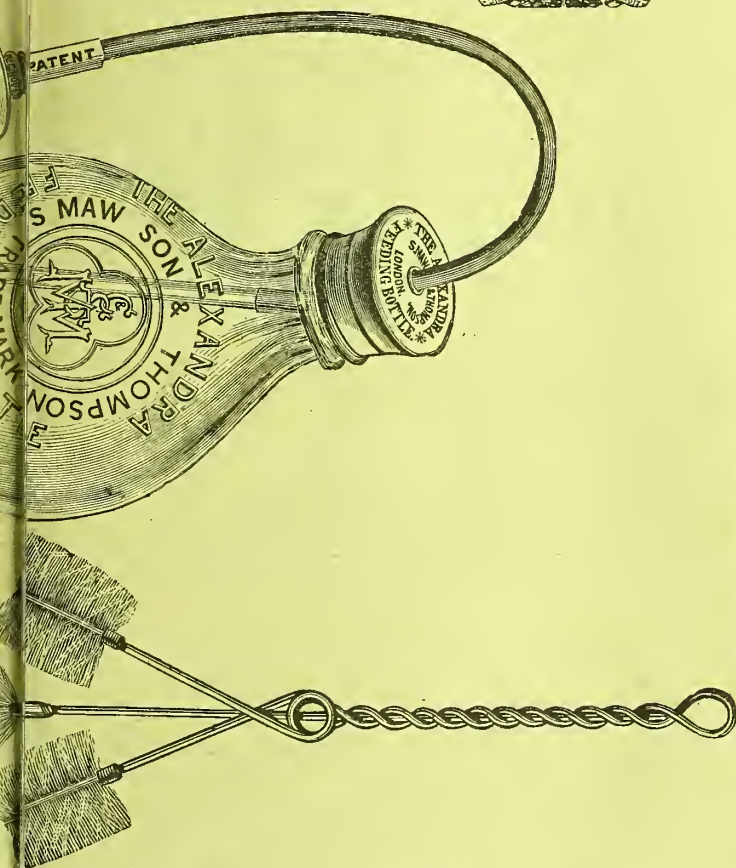


# A New and Useful Article for the Nursery.

By Her Majesty's



Royal Letters Patent.



✧ L E E ' S ✧

## PATENT FEEDING BOTTLE CLEANER.

THIS much-needed article will be found exceedingly useful in the Nursery, and all having the care of young children must acknowledge it to be a boon. It is easy to use, and will last a long time. One or two turnings of the Cleaner will render the bottle clean and wholesome, entirely removing any sediment or milk curdling.

The Cleaner is made of the best bristles, and the price being a mere trifle, the Patentees are sanguine of a very large sale.

SOLD BY ALL CHEMISTS AND DRUGGISTS.

WHOLESALE AGENTS

S. MAW, SON AND THOMPSON, LONDON.







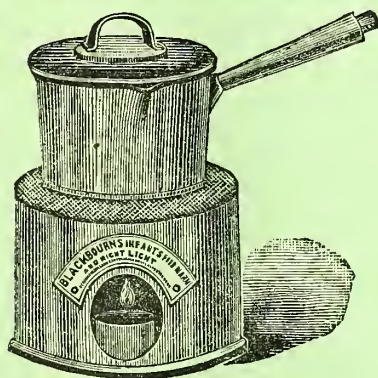
# THE NEW FOOD WARMER.

SIMPLE, SAFE AND CHEAP,  
BLACKBOURN'S

# I WARMER D

1/6

COMPLETE.



1/6

COMPLETE.

Protected under Patent No. 6991.

## REQUIRING ORDINARY NIGHT LIGHT ONLY.

THE above SIMPLE but SCIENTIFIC appliance has been designed to meet a long felt want, namely:—To have **READY FOR USE AT ANY HOUR OF THE NIGHT,**

**WARM FOOD FOR INFANTS OR INVALIDS,** TOGETHER WITH A LIGHT, and these advantages at a **SMALL COST** within the reach of all. The dimensions of the above have been so carefully adjusted that a uniform heat and light are maintained during the whole time that the Night Light burns. The Gauze top is so regulated as to keep the Pan perfectly clean. (This advantage will be obvious to all who have to warm Food by the bedside.) Economy has also been considered in utilising the same Night Light for heat and illumination.

The complete apparatus, including Food Pan, can be }  
purchased for the sum of - - - - - } **1/6**

NOTE.—ANY MAKE OF NIGHT LIGHT usually sold CAN BE USED FOR THIS FOOD WARMER. See "Directions for use" enclosed in each.

Chemists can obtain the above from the leading Wholesale Houses in London, &c., or from the Proprietor,

**HENRY DUNSFORD,**

42 & 44, MANESTY LANE,

**LIVERPOOL.**





# HENRY DUNSFORD,

## Wholesale & Export Druggist,

IMPORTER OF ESSENTIAL OILS, &c.,

42 & 44, MANESTY LANE,

LIVERPOOL.

---

Norwegian Cod Liver Oil. (Finest non-freezing).

Sublime Olive Oil,

Castor, Ground Nut, Sesame, and other Oils.

Essence of Lemon.

Essence of Bergamotte.

Oil of Peppermint.

Californian Honey.

Arrowroot.

Petrolatum (very reliable brand.)

Insect Powder.

&c., &c., &c.

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Enquiries by Post or Wire have prompt attention,  
and Samples sent Post Free.

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TELEGRAPHIC ADDRESS:—"RICINI," LIVERPOOL.





# BURROUGH'S

*SPECIALLY PURE*

# SPIRITS

OF

ALSO FINE  
**SHERRY AND MALAGA,**  
FOR  
MEDICINAL  
PURPOSES.

# WINE

AND

## Best Methyplated

Fine Grape  
Spirit and  
Finest Orange  
Wine,  
"Will not  
precipitate."

## Spirit

LOWEST PRICES ON APPLICATION

DUTY FREE FOR EXPORTATION

CALE STREET DISTILLERY, CHELSEA, S.W.

[P.T.O.]



# WHISKEYS,

"FREE FROM  
FUSEL OIL."

OZONE AND HERMIT WHISKEY STORES.

## JAMES BURROUGH,

Distiller and Importer of Wines, Spirits, Liqueurs, &c.,

### CALE STREET DISTILLERY,

CHELSEA, S.W.

Over Half-a-Century's Reputation for British Liqueurs & Cordials.

TERMS CASH.

LIBERAL DISCOUNTS TO THE TRADE.

OZONE WHISKEY ... .. at per 1 dozen case 40/-  
Finest (Dublin) Irish Whiskey.

HERMIT WHISKEY ... .. at per 1 dozen case 40/-  
Finest Scotch (Highland) Whiskey.

Both of these Whiskeys strongly recommended :

SHERRY (FOR MEDICINAL USE, &c.) ... from per gallon 7/-

ORANGE WINE (will not precipitate) ... at per gallon 5/9

BEST RUM ... .. from per gallon 14/-

BEST RUM (high strength) for preparations, fr. pr. gall. 19/-

FINE INVALID'S PORT ... .. at per doz. 30/-

Specially selected and strongly recommended.

Also Fine Old Crusted Ports ... .. from per doz. 36/-

### CALE STREET DISTILLERY, S.W.

FULL LIST SENT ON APPLICATION.

## JAMES BURROUGH.

Discount Allowed on Cash Orders.

Jars and Packages Chargeable until Returned.



# LIEBIG COMPANY'S EXTRACT OF BEEF

THE ONLY SORT GUARANTEED GENUINE BY BARON LIEBIG.

HIGHEST DISTINCTIONS AT ALL EXHIBITIONS.

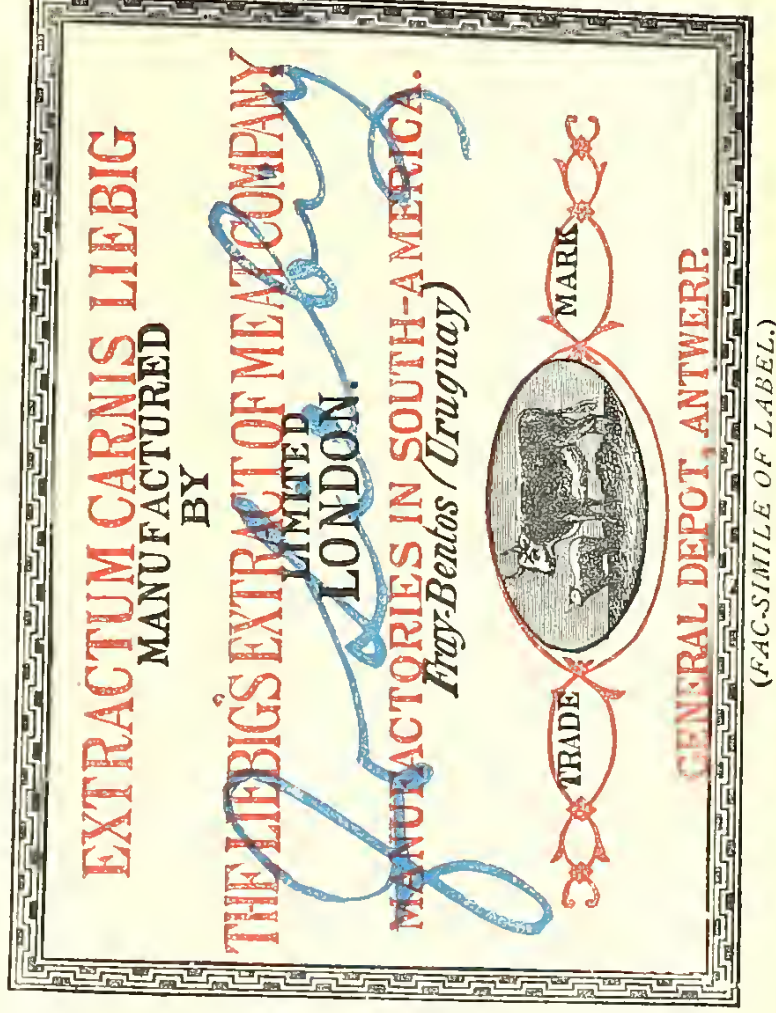
Consumption increased Tenfold within the last Ten Years. Annual Sale Eight Million Jars!

DECLARATION.—This is the only Extract of Beef warranted genuine by Baron LIEBIG, the Inventor, who has exclusively authorised it to be called by his name. All other so-called Liebig's Extracts of Meat (or Baron Liebig's with photograph) have no connection with the Baron, and are so designated against Baron Liebig's expressed will. Most imitation sorts are of low quality, of unpleasant odour and flavour, and dissolve in water turbidly instead of quite clearly.

## USES OF THIS EXTRACT OF BEEF.

**Beef-tea.**—A quarter of a tea-spoonful of Extract dissolved in boiling water will, with the addition of plenty of salt, produce a breakfast-cup full of strong and clear Beef-tea, free from fat and gelatine, AT THE COST OF ABOUT ONE PENNY (2 CENTS). According to taste, the yolk of an egg, some bread or toast, some butter, a boiled potato, or a little Sherry or Port wine may be added.

**Stocks for Soups, Sauces, & Made-dishes** —This Extract forms the finest meat-flavouring ingredient for meat and vegetable soups, gravies, and made-dishes. A slight addition of it at once enables the cook to improve



## USES OF THIS EXTRACT OF BEEF.

the delicate and fine flavour, on which the success of good cookery so greatly depends.

**Medical Comfort.**—The action of this Extract taken as beef-tea or in the form of soups (with some addition of Sherry or Port wine according to taste) as a tonic in cases of dyspepsia, weak digestion, or general debility, is most beneficial.

## IMPORTANT MEDICAL HINT.

**Night-Cap.**—This beef-tea soothes and settles the stomach, allays brain excitement, and induces sleep.—“The most admirable and successful Night-Cap.”—*Medical Press.*

## GREAT ECONOMY AND IMPROVEMENT IN COOKERY.

“The soul of all Cookery is the Stock-pot, and the best Stock-pot is Liebig Company's Extract of Beef.”—*Francatelli.*

**CAUTION.**—Every Genuine Jar bears on the Certificate Label round the Capsule the two signatures of PROFESSOR DR. MAX von PETTENKOFER and BARON H. von LIEBIG, and across the Trade Mark Label a fac-simile, in blue, of the signature of the Inventor, the late BARON JUSTUS von LIEBIG.

## IMITATION EXTRACTS.

One of the most eminent London medical authorities writes as follows:—“I have tasted many extracts of European, Australian, and American origin; they all more or less approached the chemical requirements, but in taste and odour were very different. Some were brown, viscous, and pappy, and of a strong flavour of over-done meat, with some disagreeable heavy odour attached. Others also over-heated and too brown, were yet too watery and not keeping in hot weather; others again were much too brown, blistery, not of extract consistence, but of the consistence of electuary, with a heavy strong odour. The Liebig Company's alone has a pale brown colour, a faint odour of roast-beef gravy, and a fine flavour, as distinguished from a coarse one. There is no suspicion of strange taste about it. It leaves the tongue free, it does not make the lips sticky; it perfectly assimilates with the finest and simplest cookery. It keeps perfectly in any climate.”

**N.B.—ASK FOR LIEBIG COMPANY'S EXTRACT OF BEEF, AND DO NOT ACCEPT INFERIOR SUBSTITUTES.**

**SIZE OF JARS.**—In reply to some complaints about the exaggerated size of the Jars, or about the Jars not being full, the Company beg to state that they guarantee the full and correct weight of the contents of every single Jar.



11  
NAME TO CORRESPONDENCE OF BIRTH

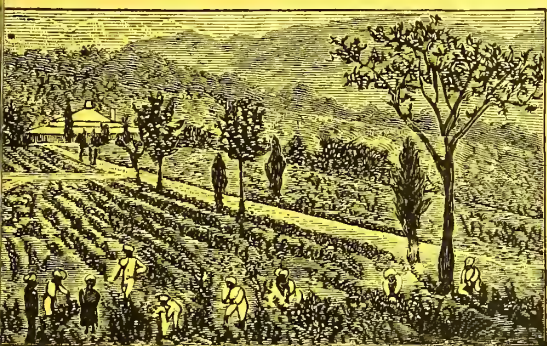


# KANGRA VALLEY INDIAN TEA GROWERS' ASSOCIATION,

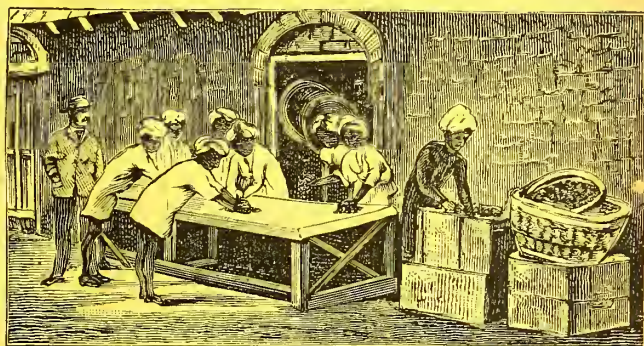
*FRENCH & LANGDALE,*

14, ST. DUNSTAN'S MILL, LONDON, E.C.

PROCESSES OF MANUFACTURING THEIR TEAS.



Plucking.



Rolling the Leaf.



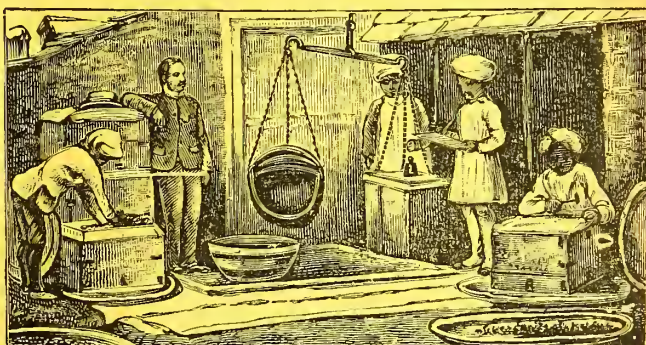
Sun Drying.



Drying over Charcoal Fires.



Hand Sorting.



Packing.

For Prices see over.



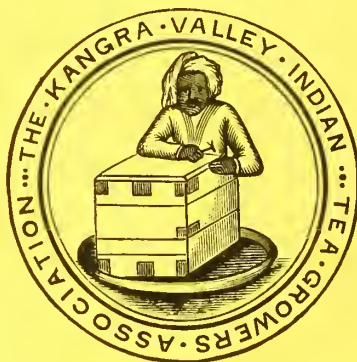
# KANGRA VALLEY INDIAN TEA GROWERS' ASSOCIATION,

*FRENCH & LANGDALE,*

14, ST. DUNSTAN'S HILL, LONDON, E.C.

(Late 11, Pantion Street.)

TRADE



MARK.

*L. F. L.*

Guaranteed to be absolutely pure, as supplied to Europeans in India.

Packed in 1-lb.,  $\frac{1}{2}$ -lb. and  $\frac{1}{4}$ -lb. Tin-foil lined packets.

No. 1.	Orange Pekoe	...	marked	4/-	per lb.
"	2.	Pekoe	...	"	3/-
"	3.	Pekoe Souchong	...	"	2/6
"	4.	Souchong	...	"	2/-

Wholesale Discount on Nos. 1, 2, and 3,  $17\frac{1}{2}\%$ ; on No. 4,  $12\frac{1}{2}\%$ —not less than 20 lbs. supplied. Chests of 50 lbs. Carriage Paid.

*TASTING SAMPLES ON APPLICATION.*

These Teas are recommended to Chemists, not only on account of their purity, but because they are less astringent than other Indian Teas.

## TESTIMONIAL.

FULBECK, GRANTHAM.

I have examined the different qualities of Tea sold by the Kangra Valley Tea Growers' Association, and have found them of excellent quality, possessing in a high degree the aromatic and restorative properties of tea, with a much less quantity of bitter extractive than found in many China Teas. The Pekoe Souchong has a very agreeable flavour, and I have used it in my family for a considerable period, and found it excellent. The Orange Pekoe and Pekoe possesses rare strength, fully equal to the difference in price. Indian Teas being grown and prepared under skilled English superintendence, are superior in every way to China Teas, which are in many instances mixed with other leaves besides the true tea leaf, and faced with a mixture of Plaster of Paris and colouring matter. From my knowledge of the Kangra Valley Tea, I have no hesitation in strongly recommending it to any one wishing for a really good "Cup of Tea."

GEORGE KINGSTON BARTON, M.D.,

*Fellow of the Royal College of Surgeons, England (Resident in China 21 years).*



# JAMES WOOLLEY, SONS & CO.

Drug Millers, Wholesale and Export Druggists,

AND

MANUFACTURING · PHARMACEUTICAL · CHEMISTS.

## ~ SPECIALITIES. ~

Spirit of Nitrous Ether.

Guaranteed of Official Strength.

Aromatic Spirit of Ammonia.

Distilled from Volcanic Ammonia.

Assayed Opium, Cinchona, and Scammony,

Their Powders and Preparations.

The "Extra Pale" Cod Liver Oil.

Free from fishy odour. Unchanged at 32° F.

Dalmatian Insect Powder.

From Unopened Flowers, free from added colouring matter.

Tasteless Coated Pills.

Soluble in cold water.

Pure Crushed Linseed.

Ground from Screened Seed.

Pure Yellow Beeswax, in Bars.

M.P. 149° F.

Soluble Essences of Ginger, Lemon, &c.,

For flavouring Aërated Waters.

Emulsified Cod Liver Oil.

With Hypophosphite of Lime.

Minerolin (Mineroleum).

A pure Hydro-Carbon Ointment Basis.

Levigated Ointments

By Steam Power.

DEALERS IN DRUGGISTS' SUNDRIES.

CHEMICAL AND PHARMACEUTICAL APPARATUS AND SURGICAL INSTRUMENTS.

PROPRIETORS OF

The "SANITARY ROSE POWDER," the "BOVAL" TOILET PREPARATIONS, &c.

Drugs and Chemicals Ground for the Trade.

Warehouse and Offices: 2 & 4 Swan Court, Market St.; Laboratories and Drug Mills: Knowsley St., Cheetham,

**MANCHESTER.**

Price Current and Catalogues on demand. Special quotations to large buyers. Telegrams—"PHARMACY MANCHESTER."

# WILLOWS, FRANCIS & BUTLER

(Late BURGESS, WILLOWS & FRANCIS),

## Wholesale and Export Druggists,

WHITE HORSE BUILDINGS,

101 HIGH HOLBORN, LONDON.

ESTABLISHED 1751.

## DRUGS, CHEMICALS, AND PHARMACEUTICAL PREPARATIONS.

PRICE LISTS ON APPLICATION.

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# BARTLETT HOOPER & CO., MANUFACTURING CHEMISTS, 43 KING WILLIAM ST., LONDON BRIDGE, E.C.

Beg to call the attention of the trade to the following reliable Specialities. Orders can be filled either direct or through any Wholesale House.

## HOOPER'S CAPSULES (FLEXIBLE).

Cascara Sagrada, triple strength	15/ doz.
Castor Oil	9/ "
Cod-liver Oil	9/ "
Copaiba	7/6 "
" and Cubeb	12/6 "
" Cubeb and Buchu	12/6 "
" Sandal and Cubeb	12/6 "
Male Fern Extract	15/ "
Sandal Oil (English)	16/6 "
Terebene	10/6 "
Turpentine	9/ "

These capsules are boxed in a most attractive manner, contain pure drugs only, and can be relied upon. Special quotations for bulk quantities. Any combination of oils, pastes, or powders filled.

Hooper's X.L. Cachous, slide boxes	13/6 grs.
" Original Cachous, brass boxes	2/9 doz.
" Ladies' Cachous	2/6 "
" Cachous, paper boxes	2/6 "
" " slide boxes	3/ "
" Fumigating Pastilles	2/9 "
" Asthma Cure	5/6 "
" Carbolic Acid	5/6 "
" Creasote	5/6 "
" Eucalyptol	5/6 "
" Thymol	5/6 "

## HOOPER'S COMPRESSED PELLETS.

Ammonium Bromide	5/6 lb.
" Chloride	3/ "
Cocaine, various strengths, from	14/ "
Potassium Chlorate	2/ "
" " and Ammonium	4/2 "
" " and Borax	2/9 "

## HOOPER'S COMPRESSED PELLETS (continued).

*Potassium Bicarbonate	2/6 lb.
" Bromide	4/6 "
*Sodium Bicarbonate	2/6 "
Soda Mints	4/6 "
*Voice	4/6 "
We also supply in neat slide boxes, handsomely labelled.	
Potassium Chlorate	at 2/ doz.
Kinds marked thus *	3/ "
Soda Mints (in bottles)	4/ "
Digestive Pellets (Bottles)	7/6 "
Hooper's Sea Sickness Pellets	10/6 "
Quotations given for manufacturing Compressed Pellets from any formula.	

# PUMILINE.

THE ONLY PURE ESSENCE AND  
EXTRACT OF SNOW-GROWN  
PUMILIO PINES.

FOR GOUT, RHEUMATISM, SORE THROAT, CHEST AFFECTIONS.

SIR MORELL MACKENZIE wrote, December 9, 1887:—"I have much pleasure in stating that I have made use of Oleum Pumilionis during the last twenty-five years, that I consider it a most valuable preparation. It acts as an admirable tonic to the mucous membrane of the air passages in cases of chronic bronchitis and laryngeal catarrh. I am glad, therefore, to hear that the remedy is about to be used on a large scale, and I have no doubt the results will be highly satisfactory.

(Signed)

"MORELL MACKENZIE, M.D."



THE SNOW-GROWN PINUS PUMILIO.

PUMILINE ALONE, with the single exception of Pinol, possesses the physical and chemical properties which give it the faculty of being administered internally with **SAFETY**. It is, therefore, essential for Chemists to use Pumiline, as it is the only preparation obtained from snow-grown Pumilio Pines.

FOR TRADE PRICE LISTS, PAMPHLETS, ANALYTICAL REPORTS, &c.—

G. & G. STERN, 11 Billiter Square, LONDON, E.C.

# SUMMER SEASON.

GRANULAR EFFERVESCENT

# CITRATE OF MAGNESIA

EXCEPTIONAL OPPORTUNITY.

With a view of securing orders for the season, I shall be happy to send a 7-lb. Pottle of Granular Effervescent Citrate of Magnesia as sample at 7½d. per lb., or a 28-lb. Tin, hermetically sealed, at 7d. per lb.

**NOTE!**—Sample order for a Tin, if accompanied with P.O.O. for 18s., will be forwarded, CARRIAGE PAID, for first orders only.

**SPECIAL DISCOUNT TO LARGE BUYERS.**

PARTICULAR ATTENTION IN PACKING EXPORT ORDERS.

**E. R. BANNER, 56 BOALER STREET, LIVERPOOL.**



# Dr. J. COLLIS BROWNE'S CHLORODYNE.

THE ORIGINAL AND ONLY GENUINE.

## IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD,  
and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as completely untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the Defendant would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1866, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the *Medical Times*, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the Inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

ORIGINAL AND

## FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—

Apothecaries' Hall,	London	Frazer & Green,	Glasgow	Morson, T. & Son,	London
Allen, Hanbury & Co.,	"	Gale & Co.,	London	Newbery & Sons,	London
Baiss Brothers,	"	Giles & Son,	Clifton	Oldham, G. & Co.,	Dublin
Banks & Richards,	Birmingham	Goulding, Messrs.	Cork	Parsons & Richardson,	Leicester
Barron, Harvey & Co.,	London	Grattan & Co.,	Belfast	Peake, Allen & Co.,	Dublin
Bell, John, & Co.,	"	Grimwade, Ridley,	London	Raines & Co.,	York
Bourne & Taylor,	"	Grindley & Son,	Chester	Raines & Co.,	Edinburgh
Corbyn & Co.,	"	Hearon, Squire & Francis,	London	Sang & Barker,	"
Cox & Gould,	"	Hodgkinson, Tonge & Stead,	"	Sanger, J., & Sons,	London
Curling & Co.,	"	Hopkins & Williams,	"	Sim, James, & Co.,	Aberdeen
Curtis & Co.,	"	Hovenden, R., & Sons,	"	Smeeton, W.,	Leeds
Davy, M'Murdo & Co.,	"	Hunt & Co.,	Exeter	Southall & Co.,	Birmingham
Dobbin, W., & Co., Limited	Belfast	Hunt, A., & Co.,	"	Sutton, W., & Co.,	London
Drew, Barron & Co.,	London	Johnson, J. H. & S.,	Liverpool	Tomlinson, Hayward & Co.,	Lincoln
Drew, B., & Alexander,	"	Langton, W., & Co.,	London	Treacher, Hodgkinson & Co.,	"
Dunn & Company,	"	Lynch & Co.,	"	Westrup, J. B.,	Kensington
Edwards, W.,	"	Mander, Weaver,	Wolverhampton	Westwood & Hopkins,	Lincoln
Evans, Gadd & Co.,	Exeter	Marsden & Sons,	London	Woolley, James,	Manchester
Evans, Lescher & Webb,	London	Maw & Son,	"	Wyleys & Brown,	Coventry
Ferris & Co.,	Bristol	Meggison & Co.,	"	Yates & Co.,	London
Foulger, S., & Son,	London	Mackay, John, & Co.,	Edinburgh		

After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy alone creates the great demand.

Sold in Bottles—1s. 1½d., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

SOLE MANUFACTURER,

**J. T. DAVENPORT, Pharmacist,**  
88 GREAT RUSSELL STREET, BLOOMSBURY SQUARE, LONDON.









# COCA WINE

(ERYTHROXYLON COCA).

FOR FATIGUE OF MIND AND BODY.

NEW RESTORATIVE TONIC OF VOCAL, MENTAL, AND PHYSICAL POWERS.

Particularly useful in Hot and Enervating Climates.

*June 28<sup>th</sup> 1887 25 New Walk Terrace York*  
*Dear Sir I have been delighted with the*  
*simples of Coca Wine which you have sent me*  
*there is a minute animalcule which is destroyed by the*  
*heat of summer, & which rears on the application of a*  
*drop of water. Ambrecht's Coca Wine has a similar*  
*effect in reviving & restoring the exhausted energies of*  
*the human economy & its sustaining & strengthening*  
*properties are marvellous*  
*Yours &c. Allen*  
*Lecturer on Anatomy & Physiology*  
*at the City York School of Medicine*

THE RETAIL PRICE OF THIS WINE IS

4s. 6d. per Bottle, or 48s. per Dozen Box.

Coca Champagne Quarts	-	56s. per doz.	} Labelled Vin mousseux de Coca très sec.
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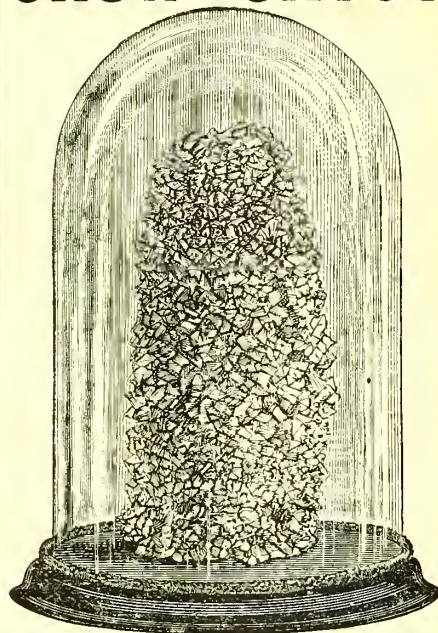
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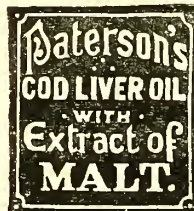
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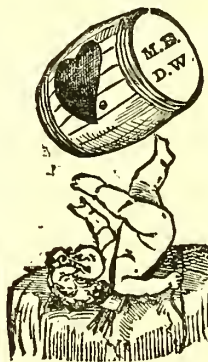
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combining the action of  
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**USES.**—**INTERNALLY:** In Dyspepsia and Gastralgia. Geo. Herschel, M.D. Lond., writes in the *British Medical Journal*, April 3rd, 1886:—"I find it chiefly valuable in (1) the Chronic Stomach Catarrhs of Children, (2) Acid Dyspepsia, and (3) Severe Gastric Pain coming on shortly after eating." Recent experiments made by Prof. Finkler, and published in *The Lancet*, July 23rd, 1887, show that Papaïn digests far more energetically than best Pepsin, when the solution is concentrated as it exists in the human stomach.

**EXTERNALLY:** It has been used by Bouchut in cutaneous carcinoma, Rossbach for dissolving the false membranes of Diphtheria (see *Zeitsch. für Klin. Med.*, vi. H. 6), by Jacoby of New York for the same purpose, and recently Prof. Finkler himself has restored patency to an œsophagus occluded by carcinoma by the continuous administration of a solution.

### **PIL. PAPAÏN (FINKLER).**

For the convenience of dispensing PAPAÏN (FINKLER) these pills are made up in bottles of 25, 50, and 100 (one and two grains each), in convenient shapes for carrying in the pocket.

**SALOL.**—The New Antirheumatic and Antiseptic.

Recommended by the French, Swiss, and German Faculty (*Brit. Med. Jour.*, 17th July, 1886. Special Correspondence, Switzerland, page 130).

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SAMPLES AND PRICES ON APPLICATION.





## THE FIFTH DECADE OF "THE MOTHER'S FRIEND"

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Morton's Powders for Children of all Ages,

*Especially in Teething, Fits, Convulsions, Worms, Measles,  
Scarlatina, Hooping Cough, Croup, Difficulty of Breathing,  
and all Feverish Attacks.*

REGISTERED.

Upwards of Forty Years of unparalleled success have gained for this fine Alternative Medicine the highest approbation of every family into which it has been introduced. "THE MOTHER'S FRIEND" Powders have also been extensively used and proved to be very valuable for ADULTS, since they remove all oppressive accumulations on the Chest, regulate the secretions of the Liver, Kidneys, and Bowels, and by purifying the Blood improve and invigorate the health.

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N.B.—H. MORTON finds it needful to call especial attention to his Registered Title "THE MOTHER'S FRIEND," together with the Registered Device which distinguishes his Proprietary Medicines. A Maltese Cross with the letters H.M.R.K. enclosed in a diamond, and which, as well as the title "THE MOTHER'S FRIEND," cannot be infringed with impunity.



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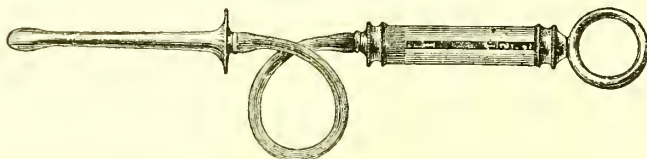
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Pilules ... ..	5/-	3/- per dozen.
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Camphor Solution or Pilules ...	5/-	3/- "
Arnica External Tr. ... ..	7/-	4/- "
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SELECTIONS IN COUNTER SHOW CASES AT £2 12s., £3, £5 10s., £6 18s.

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(Devised by C. H. MILBURN, Esq., M.B., of Hull).



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PER DOZ.

It is of a handy size, and contains exactly the quantity of glycerine required, the graduated piston being useful during the act of injection, to regulate the quantity, if less is required. The intervening tube permits the patient to see what he is doing, and enables him to inject without getting into an awkward posture, such as is required if using a syringe with a rigid nozzle. The shape of nozzle makes it self-retaining, so that if the patient should require to hold the syringe with both hands the nozzle will not slip out of the rectum.

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This is an age of keen competition, and a man who is starting business on his own account is greatly perplexed to know what articles to buy to get the largest sale and return him the largest interest on his money invested.

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This is a "fact" well worth knowing; every business man will freely admit it.

All dealers in proprietary articles throughout the world will find BEECHAM'S PILLS the best selling medicine in the market, for which they will find a quick return, a good profit, and an ever-increasing sale; they stand

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**DRUGGISTS' SUNDRIES,**

PATENT MEDICINES, &c.

**WHOLESALE & FOR EXPORT.**

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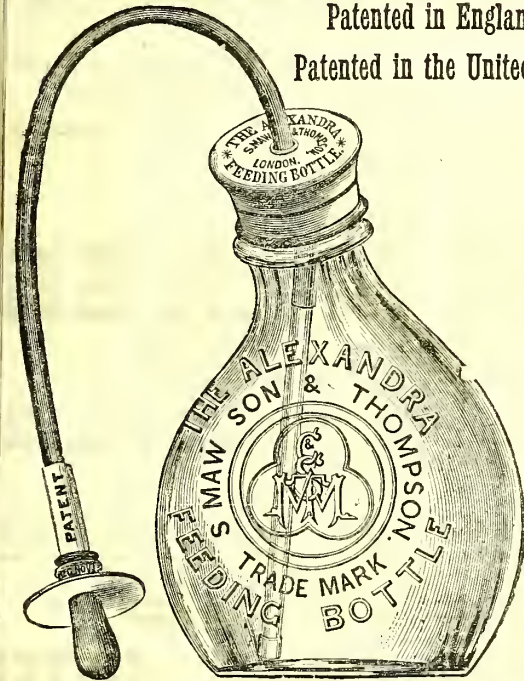
*CATALOGUES FORWARDED ON APPLICATION.*

*A TRIAL ORDER SOLICITED.*

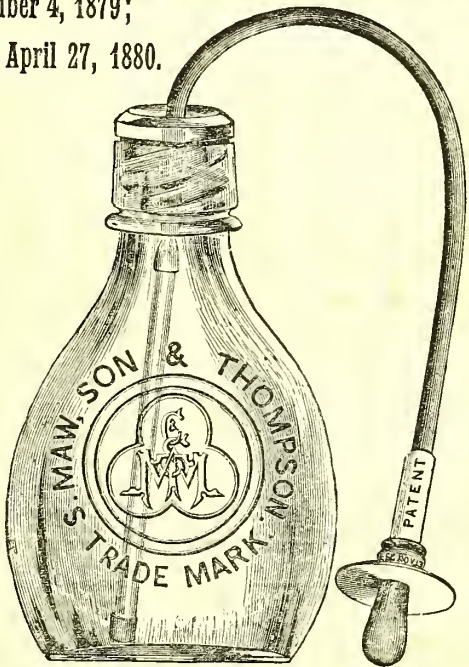


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Patented in England, December 4, 1879;  
Patented in the United States, April 27, 1880.



THE ALEXANDRA.  
(Earthenware Cap.)



THE EXPORT.  
(Glass Screw Stopper.)

	White Fittings.			Black Fittings.		
Alexandra, China or Wood Top Corks ... per doz.	3/8	—	—	4/3	—	—
Alexandra, 2nd Quality, Wood Top Corks	3/-	—	—	3/6	—	—
Alexandra, Earthenware Caps.....	—	8/-	11/-	—	8/6	12/-
Alexandra, Earthenware Screw Stoppers	—	—	11/-	—	—	12/-
Alexandra, Glass Screw Stoppers .....	4/-	8/-	11/-	4/6	8/6	12/-
Export, China or Wood Top Corks .....	3/6	—	—	4/-	—	—
Export, 2nd Quality, Wood Top Corks ...	2/9	—	—	3/3	—	—
Export, Earthenware Caps .....	—	7/3	—	—	8/-	—
Export, Glass Screw Stoppers .....	4/-	7/6	—	4/6	8/-	—

FOR FURTHER PARTICULARS SEE QUARTERLY PRICE CURRENT, PAGES 46 AND 47

SPECIAL QUOTATIONS TO WHOLESALE BUYERS. [1]

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# WYLEYS' GELATINE COATED OVAL PILLS.

The only Gelatine Coated Oval Pills of ENGLISH MANUFACTURE in the Market. Special List on application.

	Gross Botts		Gross Botts.		Gross Botts
<b>Bismuth.</b>		<b>Ferri Hypophosph. Comp.</b>		<b>Hydrarg. et Arsenic. Iodid.</b>	
(Wyleys'), R. Bismuth, Nit., 2		(Wyleys'). Each pill represents		(Wyleys'). Each pill equivalent to 5 minims of Donovan's	
gr.; Pepsin Porci, 1 gr.; Ferr.		1 fluid drachm of Syrup of the		Solution ... ..	1/8
Redact., 1 gr.; Strychnin, $\frac{1}{24}$ gr.	3/6	Hypophosphates... ..	2/6	<b>Manganese Binoxid Pur., 1 gr.</b>	2/6
<b>Calcii Sulphid.</b> $\frac{1}{10}$ , $\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{1}{2}$ , 1 gr.	1/8	<b>Ferruginous (Bland's), 3 and</b>		<b>Phosphorus, <math>\frac{1}{80}</math> Ext. Nuc.</b>	
<b>Cascara Sagrada (Ext.), 2 gr.</b>	2/-	5 gr ... ..	1/8	<b>Vom., <math>\frac{1}{2}</math> gr. ... ..</b>	2/-
<b>Ergotin. Comp.</b>		<b>Ferri Quininae et Strych-</b>		<b>Podophyllin Resin, <math>\frac{1}{8}</math> gr.; Pil.</b>	
R. Ergotin, 1 gr.; Ferri Sulph.		ninae Phosph. (Wyleys'), re-		<b>Rhei Co., 4 gr. ... ..</b>	2/6
Exsic., 1 gr.; Ext. Hellebor.,		presenting Easton's Syrup ...	3/-	<b>Potass. Permang., 1 gr., 2 gr.</b>	2/-
1 gr.; Ol. Sabinæ $\frac{1}{2}$ m.; Ext.					
Aloes Soc., 1 gr.... ..	3/-				

**WYLEYS & CO., COVENTRY.**

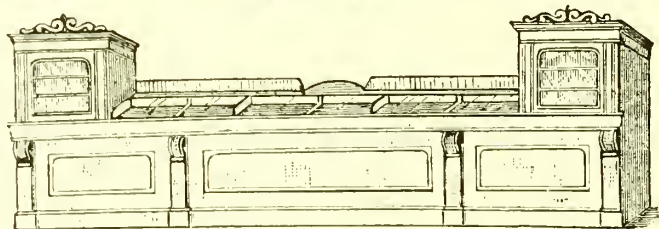
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 SHOP FRONT BUILDER AND GLASS SHOWCASE MAKER,  
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The following are some of the Chemists' shops fitted by W. S. Y. :—

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 " BLACKBURN (2 shops), Tuebrook, Liverpool.  
 " BUDDEN (5 shops), Dale Street, Liverpool.  
 " WOODCOCK, Scotland Road, Liverpool.  
 " FLETCHER, Breck Road, Liverpool.  
 " PURCELL, Walton Road, Liverpool.  
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**SHOPS TO LET FOR NEW BUSINESSES.**

All kinds of Glass Work in Name Plates, Shelves, Outside Lettered Slips, &c.



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**EVERY CLASS AND DESCRIPTION.**

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**AIRE & CALDER BOTTLE CO.**

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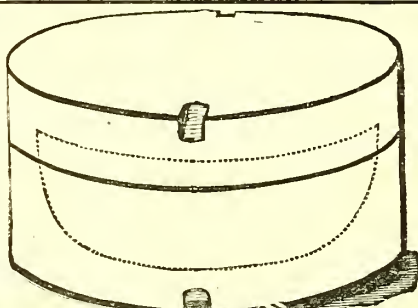
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*Are claimed to be the most perfect  
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Owing to the increasing demand for our Patent Pots, we have introduced a Special THIN Series for Dispensing.

These Pots are beautifully glazed and finished, and, being very light, are specially adapted for sending by post.

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1 dr.	2 dr.	$\frac{1}{2}$	$\frac{2}{3}$	1	$1\frac{1}{2}$	2	3	4	6	8 ounces.
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{7}$	$\frac{1}{8}$	$\frac{1}{10}$	$\frac{2}{2}$	$\frac{2}{10}$	$\frac{3}{4}$	$\frac{4}{6}$	$\frac{5}{6}$ per doz.

#### THIN for DISPENSING—

$\frac{1}{2}$	$\frac{2}{3}$	1	$1\frac{1}{2}$	2	3	4	6	8 ounces.
$\frac{1}{7}$	$\frac{1}{8}$	$\frac{1}{10}$	$\frac{2}{-}$	$\frac{2}{4}$	$\frac{3}{-}$	$\frac{3}{8}$	$\frac{5}{-}$	$\frac{6}{-}$ per doz.

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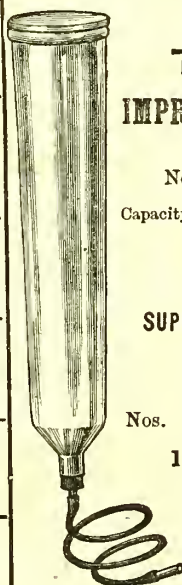
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Capacity	12	25	66	100	160 ozs.
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#### SUPPORTS FOR ABOVE IN STAINED WOOD.

Nos.	1	2	3	4	5
	1/9	2/	3/	3/	3/6 each.

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The cheapest and most efficient machine yet introduced, combining simplicity with portability, and enabling small quantities of pills to be coated with the same facility as large.

*It speedily saves its own cost.*

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Address, BOTTLES LONDON.

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**BROTHERS**

Having all the Latest Improvements for the Production of Bottles, Cases, &c., can offer all Kinds, Shapes, Sizes, and Prices to

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**BUYERS.**

That our BOTTLES are the BEST VALUE is SELF-EVIDENT from the FACT that they are

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MOST FAVOURABLY KNOWN IN ALL THE PRINCIPAL MARKETS of the WORLD.

**BUYERS.**

DISPENSING, FEEDING, PICKLE, DRUG, OIL, SAUCE, VINEGAR BOTTLES.

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In Azure Blue, Green, or Amber Glass,

In White or Blue Glass.

*Quotations & Samples sent by return.*

**SYPHONS.**

Round or Oval, Long or Short Levers,

Bright Metal or Silver-plated Tops.

**CORKS & STOPPERS**

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**OUR LEDGE MOUTH BOTTLES ARE THE BEST.**

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PLAIN OR FLUTED.

These Bottles are fitted with **BEST SCREW NICKEL CAPS**, lined with Washers, and are the most wonderful value ever offered. A trial order will prove this fact.

**PRICE**, IN BEST WHITE FLINT OR ASSORTED COLOURS, **12/-** PER GROSS, in not less than 1 gr. lots.  
*SPECIAL QUOTATIONS for Orders of FIVE GROSS and upwards.*

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ROUND SHOULDER OR LIME JUICE BOTTLES.  
1 2 3 4 6 8 10 oz.  
2/9 3/3 4/6 6/ 6/6 7/6 8/6 14/ gross.

12 16 20 oz.  
15/ 20/ 22/ gross.  
VIALS (Long, Medium, or Short Series).  
1/2 oz., 2/8; 1 oz., 3/; 2 oz., 4/6 gross.

Good quality.  
KALI (CONFECTIONER'S) BOTTLES.  
4 6 8 10 12 20 oz.  
6/ 7/6 9/ 14/ 17/ 24/ gross.

GLASS SYRINGES (Best Quality).  
1/2 oz., 14/; 1 oz., 18/; 1 oz., 27/;  
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All and every kind of Bottle made, and prices given for any particular pattern.

SCREW FEEDING BOTTLES, Black Fittings complete, 10 gross lots, 30/ per gross.

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BEST WHITE FLINT OVAL DISPENSING OR PERFUMERY BOTTLES  
2 3 4 6 8 oz.

6/ 7/ 8/6 9/6 10/6 per gross.  
BEST WHITE FLATS.  
2 3 4 6 8 oz.

6/ 7/ 8/6 9/6 10/6 per gross.  
PILL BOTTLES (Metal Screw Caps).  
1/2 oz., 9/; 1 oz., 10/; 2 oz., 13/;

3 oz., 16/ gross.  
POMADE BOTTLES (Metal Screw Caps).  
1 oz., 11/; 2 oz., 14/6; 3 oz., 18/;

4 oz., 21/ gross.  
Our Metallic Capsules are superior to anything in the Market.

SYPHONS: Block Tin Mounts, best in the trade, 18/ doz. f.o.b. Antwerp.

SELTZOGENES: 5 pint, 12/ each.

WONDERFUL PRICES.

## CORKS FOR CHEMISTS & DRUGGISTS

WE CAN OFFER A SPECIAL VALUE IN

Long Dispensing Corks, Long Vials, and Short Vials of all kinds,

including extra qualities especially prepared for Homœopathic Chemists.

Having secured a very large quantity of

## CHEAP GINGER BEER CORKS

this year, we can offer a good line to buyers of these Corks.

**BENITO, REMUS & CO.**

Cork Merchants and Manufacturers,  
12 ST. JAMES SQUARE, BRISTOL.

## DISPENSING BOTTLES & PHIALS

The following are our greatly Reduced Prices:—

CLEAR BLUE TINTED.

3 and 4 oz. .... 6/6 per gross. | 12 oz. .... 11/6 per gross.  
6 and 8 oz. .... 7/6 " | 16 oz. .... 15/6 "

WHITE MOULDED PHIALS.

LONG OR SQUAT SERIES.

1/2 oz. .... 3/0 per gross. | 1 1/2 oz. .... 4/3 per gross.  
1 oz. .... 3/6 " | 2 oz. .... 4/9 "

Prompt attention to country orders. Packages 1/ each, allowed for if returned. Sample bottle sent free on application.

**I. ISAACS & CO.**

GLASS BOTTLE MANUFACTURERS,

25 Francis St., Tottenham Court Road, London, W.C.

Established upwards of 70 years.

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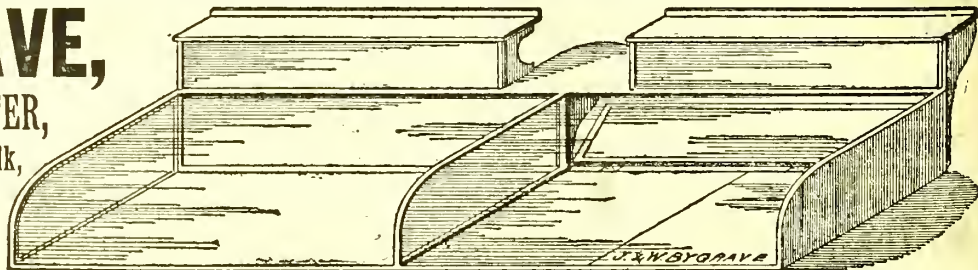
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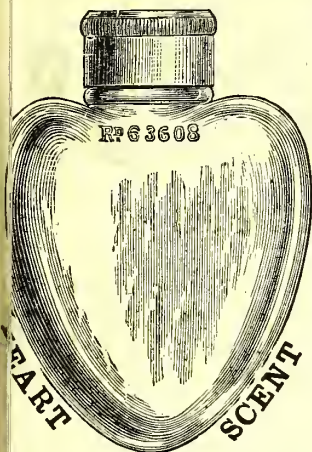
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Bent-top plate-glass Counter Showcase, in French polished mahogany, or ebonized, with two upright mirror plate-glass fronted shelves, and table in centre for serving over, and mahogany falls at back lined with mirror plate glass, inside fitted with crimson velvet trays—if 5 ft. long, 18 in. wide, 8 in. high (total height 13 in.), £5 10s.; 5 per cent. off for cash.





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Flint Glass Bottle Works,

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## THE HEART SCENT BOTTLE (Reg.), for Salts or Perfume.

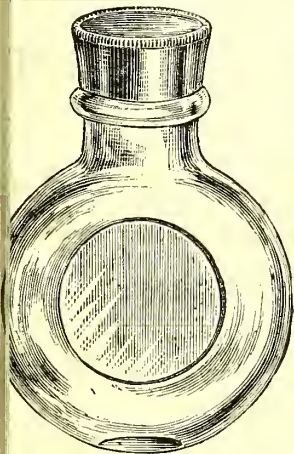
Is most admirably adapted for pocket use, combining great beauty of design with the maximum of convenience. Prices as follows, Plain or Fluted:—WHITE, 21/- per gross; COLOURED, 24/- per gross. Or in 5 GROSS lots:—WHITE, 16/-; COLOURED, 18/-. If put up in Dozen Boxes, 2s. per gross extra N.B.—The Caps for these will be fitted, if desired, with indestructible washers, to resist the action of ammonia, which destroys cork in a short time.

METAL SCREW-CAPPED LIMES, in White Flint, Actinic Green, or Amber. The Best Bottle for Glycerine or Pills. Prices: 1 oz. 13/6, 2 oz. 15/-, 3 oz. 18/-, &c. per gross.

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered.

Orders may be sent to the PRINCIPAL WHOLESALE HOUSES.

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Flint Glass Bottle Works,

THE OVAL, CAMBRIDGE HEATH, LONDON, E.

For Beauty, Cheapness, and Efficiency R. H. BARRETT'S

## WATCH SMELLING-SALT BOTTLES

EXCEL ALL OTHERS IN THE MARKET.

The Caps are all fitted with INDESTRUCTIBLE WASHERS, to resist the action of Ammonia and retain the strength of the Salts.

Price, assorted white and coloured, 10/6 per gross (in 5-gross lots).

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered.

Telegraphic Address—"FOREFRONT LONDON."

**NEVER FAILING! SELF ADJUSTING!! PATIENCE SAVING!!!**

# R. H. BARRETT'S NEW PATENT BOTTLE

THE ONLY REALLY PERFECT CAPPED BOTTLE

FOR VASELINE, POMADE, DRY POWDERS, &c.

Prices—Fitted with STRONG METAL CAPS, CORK-LINED; in various colours, very attractive in appearance:—1 oz. 12/; 1½ oz. 13/; 2 oz. 13/6; 3 oz. 16/; 4 oz. 18/ per gross.

Fitted with best BOXWOOD CAPS:—1 oz. 18/6; 1½ oz. 19/; 2 oz. 20/; 3 oz. 24/; 4 oz. 28/ gross.

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered. Orders may be sent to the PRINCIPAL WHOLESALE HOUSES.

# R. H. BARRETT,

FLINT GLASS BOTTLE WORKS,

THE OVAL, CAMBRIDGE HEATH, LONDON, E.

Telegraphic Address—"FOREFRONT LONDON."



# AYRTON & SAUNDERS,

Designers and Manufacturers

OF

## High-Class Artistic Specialities

FOR CHEMISTS AND DRUGGISTS;

WHOLESALE AND EXPORT DEALERS IN

PATENT LINT, PLAISTERS, AND COTTON WOOL,

MEDICAL GLASS BOTTLES,

SURGICAL INSTRUMENTS, TRUSSES, &c.

HARD AND SOFT WOOD TURNERS;

MANUFACTURERS OF ROUND, SQUARE, AND OVAL BOXES,

IN PAPER, WILLOW, AND CHIP;

IMPORTERS OF

## AMERICAN, GERMAN, & FRENCH BOXES;

AND GENERAL DEALERS IN

DRUGGISTS' SUNDRIES of every description.

SPECIAL QUOTATIONS TO LARGE BUYERS FOR CASH.

WAREHOUSES—

149 & 153 DUKE ST.



FACTORY—

62 PARR STREET,

## LIVERPOOL.

All Letters, Orders, &c., to be addressed to the Firm, 149 DUKE STREET.



AYRTON & SAUNDERS will be glad to undertake Foreign Agencies and Commissions, and to buy and ship for Firms who have no representatives in England, and as they keep themselves thoroughly abreast of the times their friends can rely upon being well posted up in all the Novelties and Specialities that are being constantly introduced.



# DON'T BUY INFERIOR GOODS

WHICH WILL  
INJURE YOUR TRADE AND OFFEND RESPECTABLE BUYERS.

## THE TRADE ADMITS THAT HEARN'S IMPROVED FEEDING BOTTLES

SELL READILY WHEN INTRODUCED, GIVE ENTIRE SATISFACTION, AND  
ARE THE VERY BEST VALUE TO BE OBTAINED.

PRICE LIST OF FEEDING BOTTLES FITTED IN EVERY STYLE, POST FREE ON APPLICATION TO

### E. A. HEARN & CO.

MANUFACTURERS OF GLASS BOTTLES

OF EVERY DESCRIPTION,

381-3 KINGSLAND ROAD, LONDON, E.

HIGHEST AWARD ADELAIDE EXHIBITION, 1887.

### DR. JOHN FRANCIS CHURCHILL'S INHALANT

TRADE MARK



# "SPIRONE"

TRADE MARK.

REGISTERED.

FOR THE TREATMENT AND CURE OF ALL

## DISEASES OF THE LUNGS, WINDPIPE, NOSE, AND THROAT,

Claims to be a Specific for all Congestive and Inflammatory conditions of the Respiratory Apparatus, and will be found efficacious in

## COUGHS AND COLDS, ASTHMA, BRONCHITIS,

Inflammation and Congestion of the Lungs, Pneumonia, Pleurisy, Whooping Cough, Croup, Diphtheria, Pharyngitis, Laryngitis, Catarrh, Sore Throat, Quinsy, Enlarged Tonsils, Hoarseness, Loss of Voice, Colds in the Head, Hay Fever, and all other Complaints of the Respiratory Organs.

PREPARED ONLY BY THE INVENTOR.

The Genuine except such as bears the above Trade Mark "SPIRONE" and the Signature of the Inventor upon the Bottle on the Label over the Cork, and on the Wrapper,

### JOHN FRANCIS CHURCHILL, M.D. (Paris),

Discoverer of the Specific Cure for Consumption, and of the Medicinal Properties of the Hypophosphites.

Price 4s. 6d. and 11s. per Bottle.

Set of Apparatus for Administration, 15/. PAMPHLETS AND SHOWCARDS FREE ON APPLICATION.

THE SPIRONE COMPANY, Lim., Depot—17A Duke St., Manchester Square, LONDON, W.



# LINT

THE

## LIVERPOOL PATENT LINT CO.,

MARK STREET MILLS,  
NETHERFIELD ROAD NORTH,



## VELRIPOOL,

MANUFACTURERS OF

## PATENT FLAX AND COTTON LINTS

OF SUPERIOR QUALITY.

Will tear with perfect ease both ways, are free from the slightest impurity, being made from UNSIZED yarns, and possess immense absorbent power and porosity.

Our SPÉCIALITÉ,

## EXTRA SUPERFINE CAMBRIC LINT,

Is the finest Cotton Lint manufactured, and is specially adapted for Surgeons' private use.

### ABSORBENT AND CARDED COTTON WOOLS.

### ABSORBENT OPEN WHITE AND GREY

# BANDAGES

Which are much superior to any other kind for softness, coolness, and cheapness.

## WADDING, SURGEONS' TOW,

AND

## CARBOLIZED TOW.



# L I N T.

## THE ORIGINAL TAYLOR'S PATENT SUPER A1 FLAX LINT (INVENTED 1850)

This LINT, unequalled by any other, has been before the Public for about Thirty Years, during which time it has been most extensively used in the British Army and Navy, in a large number of British and Foreign Hospitals, and by the Medical Profession generally.

Its advantages are that, being made from fine Flax Fibre, it is perfectly free from all impurities, and, for surgical purposes especially, is infinitely superior to Lint made from any other material.

Manufactured by W. G. TAYLOR, Charford Mill, BROMSGROVE.

SOLE WHOLESALE AGENTS—

MESSRS. S. MAW, SON & THOMPSON, LONDON.

### CAUTION.

## TAYLOR'S PATENT SUPER A1 FLAX LINT

Is produced only by the Patentee,

W. G. TAYLOR, Charford Mill, BROMSGROVE.

Packages having the Patentee's Signature alone are genuine.

*W. G. Taylor*

W. G. TAYLOR begs to inform the Trade that he is the Sole Manufacturer of the above celebrated Lint, and that he has no connection whatever with any other maker. Supplied WHOLESALE, direct from the Works; or by—

S. MAW, SON & THOMPSON, 7 to 12 Aldersgate Street, LONDON, E.C.

**Taylor's Super A1 Flax Lint,**  
3s. 8d. per lb.

**Maw's Super Quality Surgeons' Lint**  
2s. per lb.

**Maw's Superior Hospital Lint,**  
1s. 9d. per lb.

**Maw's No. 2 Hospital Lint,**  
1s. 6d. per lb.

SPECIAL QUOTATIONS BY THE CWT.

S. MAW, SON & THOMPSON, LONDON.



## ROTARY PILL MACHINES

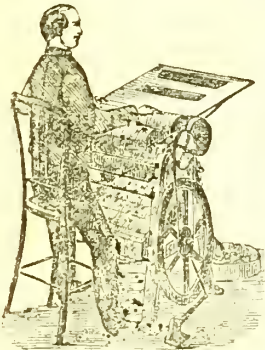


Fig. A.

Fig. A.—This invention consists in a novel and improved arrangement of Machinery, whereby any description of Pill Mass can be converted into Pills, at the rate of from 15 lbs. to 40 lbs. per hour, according to the size of the Machine used.

Fig. A.—No. 1 .. £12 12s.  
No. 2 .. £15 15s.  
No. 3 .. £20 0s.

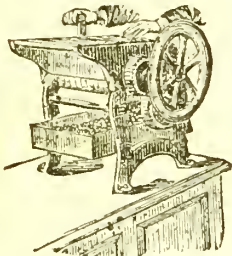


Fig. B.

Fig. B.—A small useful Machine, capable of making 10 lbs. of Pills per hour, particularly adapted for persons making small quantities, at £7 15s.

Press suitable for same, £2 15s.

Any of the above can be made to cut two or three different size Pills, at an additional cost for extra Rollers and Plates.

## PIPING PRESSES

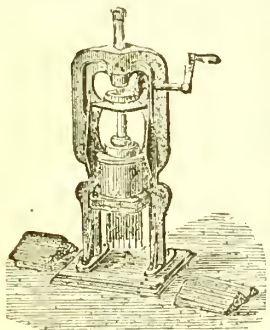


Fig. C.

Fig. C. is the improved Press for Piping, by means of which a great quantity of Mass can be Piped in a few minutes, truer than by the old method of rolling.

No. 1 .. .. £ 0s.  
Fig. C. No. 2 .. £5 10s.  
No. 3 .. £8 0s.

## J. W. PINDAR'S NEW ROTARY PILL MACHINES

As used to this date by Messrs. Holloway, Cockle, Cox, and all the principal Pill Makers in Europe, Asia, Africa, America, and Australia.

### J. W. PINDAR'S New Rotary HORSE BALL MACHINES.

These Machines are on a similar principle to the Rotary Pill Machines that have given such great satisfaction in all parts of the world.

Price £8 15s.

Rollers for other sizes, Riggers for Steam Power, also Gas Apparatus if required, supplied at a small additional cost.

Mr. J. W. PINDAR, 224 Strand, 13th March, 1866.

Sir,—I have much pleasure in stating that the Pill Machine which you made for me answers remarkably well, as the Pills are far better made than those by hand-machines, and with much less waste. I can, therefore, confidently recommend it as a very excellent one, a great saving of labour and, consequently, expense.—I remain, yours faithfully,

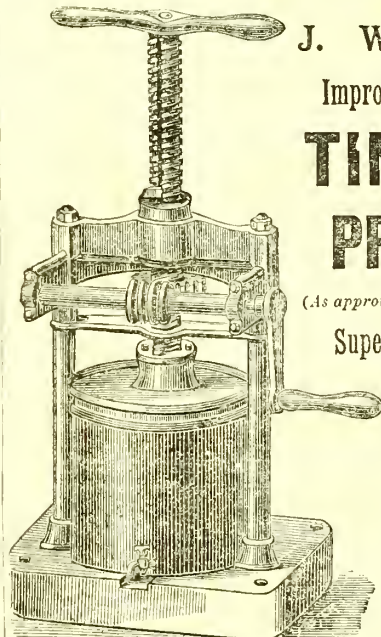
THOMAS HOLLOWAY.

3 Crane Court, Fleet Street, Feb. 14th, 1871.

To Mr. J. W. PINDAR.

Dear Sir,—We have now used your Rotary Pill Machine about six years, and find it answers better than any we had previously used, and makes the Pills of a very regular size.—Yours truly,

T. WHELPTON.



### J. W. PINDAR'S Improved Double-Action TINCTURE PRESSES

(As approved of by Wholesale Chemists)

Superior to Hydraulic,

On account of holding the pressure.

Prices for One Gallon  
£3 10s.

For each additional  
Gallon, £1 10s. extra.

Directions for use  
forwarded with each  
article.

338 Oxford St., opposite Great Portland St.,  
Mr. J. W. PINDAR, Feb. 11th, 1871.

Sir,—The Rotary Pill Machine and Press which we had from you (for a special order) answered very satisfactorily.—We are, Sir, yours respectfully,  
JOHN BELL & CO.

29 Murray St., New York, and Farringdon Rd.,  
Mr. J. W. PINDAR, London, Nov. 9th, 1863.

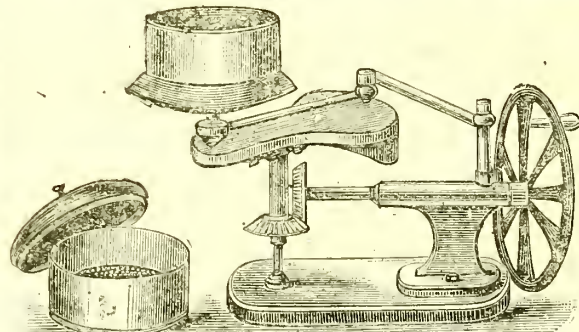
Dear Sir,—Your letter of inquiry came duly to hand. As I always told you, the Pill Machine in operation at my London warehouse has given entire satisfaction. So have these we are using in this country. We can make smooth, round Pills of uniform size at a very small expense. I can safely say that your Pill Machine is all that you claim it to be—a perfect Machine.

Yours truly,

A. J. WHITE.

## NEW PATENT "ECCENTRIC" PILL COATER.

Invented and made by J. W. PINDAR, Patentee.



### PRICES.

No. 1.—For 2 lbs., £2 5s.; sifter for same, 7s. 6d.

No. 2.—For 5 lbs., £3 15s.; sifter for same, 15s.

No. 3.—For 10 lbs., £5 15s.; sifter for same, £1 5s.

No. 4.—For 20 lbs., on Iron Standards for Steam, Gas, or other power, £15 15s.; sifter for same, £2 5s.

The smallest Machines can be worked by Steam Power at a small additional cost.

By an entirely new arrangement of mechanism this machine is constructed in a manner which supercedes all others, as, owing to its "Eccentric" motion, the Pills—which may be coated with Pearl, Silver, Gold, or Sugar, &c., &c.—are thoroughly separated from each other during the process, and retain their original spherical form, whilst being thrown round the receptacle with remarkable velocity.

These machines are equally adapted for coating large or small quantities; thus, a machine constructed for and suitable for coating 20 lbs. will coat 1 lb. only with equal efficacy, and in the most satisfactory manner.

Each machine is supplied with a Drug or Powder Sifter, to be attached if required, and which, fitting to top of Pill Receptacle, is subject to the same "Eccentric" motion as above mentioned.

This addition will be found of great advantage in the Laboratory, being both efficient and compact.

Testimonials from all parts of the World may be seen on application to

**J. W. PINDAR, 75 New Church Rd., Camberwell, LONDON.**

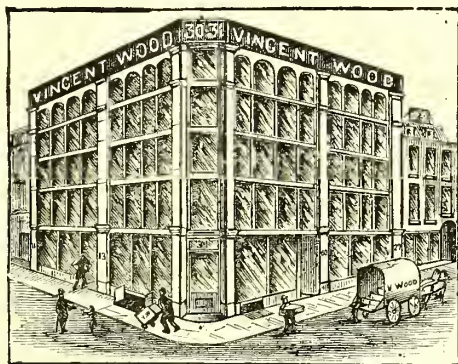


**CAUTION.**—Not connected in business with anyone trading in the name of **WOOD.**

# VINCENT WOOD

(Sole successor to JAMES WOOD & CO.),

**BONA FIDE  
MANUFACTURER  
OF  
SURGICAL  
APPLIANCES.**



ESTABLISHED 1840.

REGISTERED TRADE MARK

**“EUREKA.”**

Telegraphic Address—  
**“ACME LONDON.”**

OFFICES & SHOWROOMS AT NO. 29. STRICTLY WHOLESALE & EXPORT ONLY.  
2, 30 & 31 PATERNOSTER SQUARE, 11 & 13 ROSE ST., NEWGATE ST.,  
**LONDON, E.C.**

THE SOLE INVENTOR AND EXCLUSIVE MANUFACTURER OF THE


## NEW MEDICATED PINE WOOL FELT APPLIANCES

The and Therapeutic Properties of which are highly recommended by the celebrated London Physician, E. J. Gibson Esq., L.R.C.P. and M.R.C.S., &c., &c., consisting of Chest and Lung Protectors, Abdominal Belts (both sexes), Knee Caps, Troat-pieces; also for every part of the human body. At prices cheaper than the ordinary Felt goods now in the market.

The accompanying Illustrations represent our new

### TERRA COTTA STATUETTE,

which we supply free of charge on receipt of stock order. The one is fitted with the Pine Wool goods, and the other with a new Ladies' Abdominal Belt and the Acme Expanding Brace, both being under Glass Shades and standing upon ornamental pedestals.

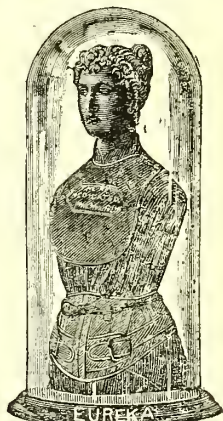
 This is the most attractive Advertisement that has ever been offered.

Also Show Cards, Circulars of all kinds, with customers' own names and addresses thereon, self-measurement forms, and blocks of all sizes for illustrations supplied as above.

Inventor likewise of the ACME, EUREKA, and other well-known kinds of CHEST-EXPANDING BRACES.



Size 19½ inches high



by 8½ diameter.

### THE NEW “EUREKA” OBSTETRIC BINDER, WITH SELF-ADJUSTING PLATE

Also every possible description of Ladies' and Gentlemen's Abdominal and Supporting Belts for Riding, Lumbago, Corpency, Pregnancy, Prolapsus Uteri, Umbilical Hernia, &c., Suspensory Bandages, Eye Shades, and Surgical Appliances generally.

Guaranteed to be the cheapest and best house for this class of trade. A sample order of which will prove our assertion to be correct.

**WARNING.**—A vile fraud is being perpetrated upon the trade by an imitation of my Pine Wool Appliances, the imitation simply being a dyed Felt, which contains not a particle of curative properties; it is, therefore, requested that, to prevent imposition, to see that the goods purporting to be mine are stamped with the registered Trade Mark—**“EUREKA.”**

N.B.—This Felt is washable and retains its original colour, which is of a rich golden brown.

For full particulars of our goods please refer to Special Issue of this Journal, January 28, 1888 (4 pages).

Please mark all Indents **“VINCENT WOOD, LONDON.”**



# F. SCHUTZE & CO.

MANUFACTURERS AND EXPORTERS,

Beg to call attention to the following Special Lines:—



ENEMAS  
INJECTION BOTTLES  
PESSARIES  
URINALS  
ICE BAGS  
CATHETERS  
EAR TRUMPETS  
VULC. MOUNTED SYRINGES  
BALL SYRINGES

HYPODERMIC SYRINGES  
Ditto with HICKS' PATENT BARRELS  
GLYCERINE SYRINGES  
Ditto Dr. MILBURN'S IMPROVED  
VULCANITE THROAT SPRAYS  
ELECTRO-PLATED ditto  
DOUCHES, VAGINAL, with CANISTERS  
Ditto for Travelling  
GALVANIC and other BATTERIES

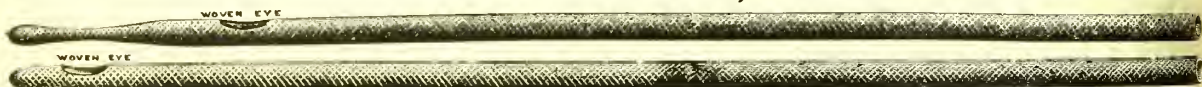
OUR GOODS ARE SECOND TO NONE. OUR PRICES THE LOWEST.  
ILLUSTRATED PRICE LIST ON APPLICATION.

SHAFTESBURY HALL, 36A ALDERSGATE STREET, E.C.

## ESCHMANN BROS. & WALSH,

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, WITH WOVEN EYES.



TO BE HAD OF ALL SURGICAL INSTRUMENT MAKERS AND WHOLESALE HOUSES.

## HARTMANN'S HYGIENIC WOOD WOOL DIAPERS

Used in all the Principal Hospitals and Recommended by the Medical Profession.

For Home Use, Delicate Health, Accouchement, and for Ladies Travelling, they are *invaluable and indispensable*. They are Soft, Light, Antiseptic, and are supplied at the Actual Cost of Washing. Supplied by Chemists, Ladies' Outfitters, and Drapers.

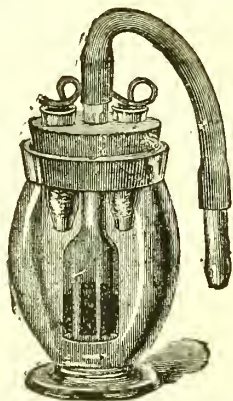
Advertised at 1/- and 2/- per dozen. To Chemists, 9/6 and 19/- per gross. Pamphlets and Showcards on application.

The SANITARY WOOD WOOL CO., LIM., 11 HATTON GARDEN, LONDON.

GODFREY'S  
NEW PATENT

## CHLORIDE OF AMMONIUM

CATARRHAL  
THROAT  
AND  
EAR  
AFFECTIONS.



LOSS of  
VOICE,  
BRONCHIAL  
ASTHMA  
AND  
HAY FEVER.

## INHALER

YIELDS a plentiful cloud of Neutral Vapour with little effort on the part of the patient.

Illustrated Prospectus, with the "History of Chloride of Ammonium as a remedial agent," free by post.

Price 7/6 Retail.

SHIPPERS AND LARGE BUYERS SUPPLIED ON LIBERAL TERMS.

SOLE MAKERS—

GODFREY & COOKE,

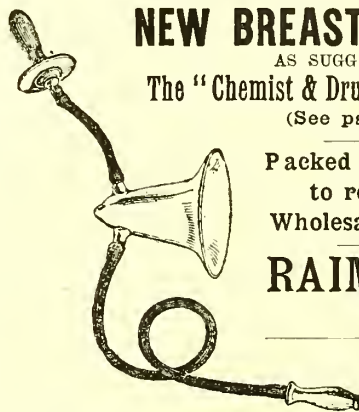
30, CONDUIT STREET, BOND STREET, W.

## NEW BREAST EXHAUSTER,

AS SUGGESTED IN

The "Chemist & Druggist" on June 16th

(See page 781).

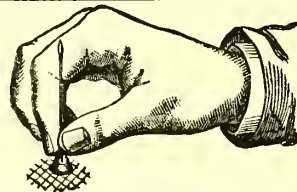


Packed in Cardboard Boxes  
to retail at 1s. each.  
Wholesale, 7s. per doz. net.

RAIMES & CO.  
YORK.

RAIMES, CLARK & CO.  
EDINBURGH.

Trade Mark.



Registered.

THE  
ASSOCIATION for the SUPPLY of PURE VACCINE LYMPH,  
19 PAUL MALL EAST, LONDON, S.W.  
SOLE AGENTS FOR DR. WARLWORTH'S CALF VACCINE.

Tubes, 2s. each; Half Tubes, 1s. each. Pomade in vials, 5s.  
HUMAN VACCINE, from healthy children only, microscopically examined and source quoted. Tubes, two-thirds full, 1s. 8d. each; Tubes one-third full and Lanox charged Points, 1s. each; Pin-points, 1s. 1d. each. Eighteen Charged Small Points, 5s. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin-points uncharged, 1s. per dozen. Vaccinations daily, between the hours of 12 and 3, by the Consulting Physician, at the uniform fee of a guinea. F.O.O.'s (including postage, and crossed London and Westminster Bank), with orders, payable to EDWARD DARKE, Secretary.

Office hours, 10 to 4; Saturdays, 10 to 2.



# "THE LEICESTER" OINTMENT AND LOTION COVERS

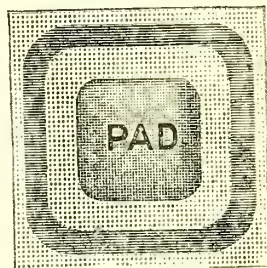
(Waterproof). With Self-adhesive Border. Patent.

The Self-adhesive Border does not "run" in any temperature. It will prevent any Ointment spread within it from soiling the clothing of the wearer, and keeps it perfectly in contact with the skin. Very useful for Skin Diseases, Ulcers, Old Sores, &c.

## WOUND PADS

The Adhesive Border is also put on Holland (various sizes) with a pad of absorbent Cotton Wool in the centre. Very handy for dressing wounds, &c., and to prevent friction of diseased surfaces.

Each kind can be had in Boxes containing three dozen assorted (six different sizes). Price 2/6 per box.



## VACCINATION PROTECTORS,

WITH ADHESIVE BORDER, 2/- PER DOZEN.

TO BE OBTAINED OF ALL WHOLESALE HOUSES.

Prepared by **A. DE ST. DALMAS, LEICESTER**

MAKER OF

Various Plasters, Spread Plasters of all kinds, Mustard Plasters, Corn Plasters, Court Plasters, Bandages, &c.

MAKER TO THE BRITISH GOVERNMENT.

ING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS.

Patentee and Sole Manufacturer, J. T. COCKING, PLYMOUTH.

Cervical Jacket, No. 1. Cervical Jacket, No. 3.

INSTRUCTIONS  
FOR MEASUREMENT.

JACKET

(in cases of slight deformity)

Circumference at axilla.

" waist.

" hips.

Length from axilla to great trochanter.

In severe angular cases circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case.

In all cases it must be stated if for male or female.

**CERVICAL JACKETS.**

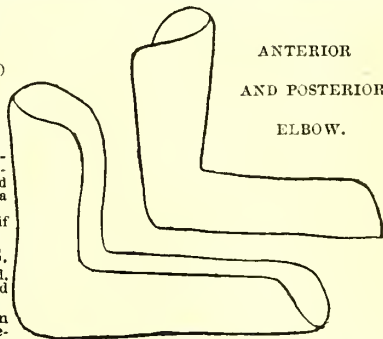
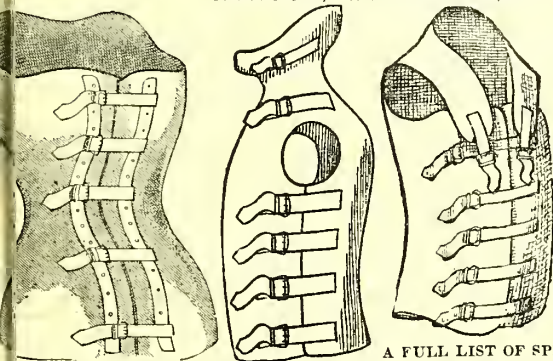
Same measurements required, and circumference at neck, and length from neck to axilla.

Any part of the Jacket can in the process of manufacture be left soft.

ANTERIOR

AND POSTERIOR

ELBOW.



A FULL LIST OF SPLINTS AND PORO-PLASTIC IN SHEETS MAY BE HAD ON APPLICATION

## IMPROVED SYRINGES

FOR THE

**INJECTION OF GLYCERINE  
TO RELIEVE CONSTIPATION.**



PRICES TO THE TRADE—

PEWTER, 8/ per dozen; PEWTER, with Glass Barrel, 12/ per dozen; VULCANITE, 30/ per dozen; VULCANITE, with Glass Barrel, 30/ per doz.; CELLULOID, with Glass Barrel, 42/ per doz.

S MAW, SON & THOMPSON, ALDERSGATE ST., LONDON.

h h



**F. SCHUTZE & CO.**

ARE SOLE MANUFACTURERS OF



THE "F. S."  
THE "PERFECTION"  
THE "ARMY & NAVY"

**SUSPENSORY  
BANDAGE.**

SUSPENDERS of every description kept in Stock or made to order. Our Manufacture excels in Quality and Workmanship, and is the **MOST SALEABLE.** Illustrated Price List on application.

**SHAFTESBURY HALL, 36a ALDERSGATE STREET.**

PATENT RIGHTS GRANTED FOR THIS TRUSS IN UNITED STATES.  
**ATKINSON'S PATENT TRUSS.**

"Quite a new departure. The most ingenious and effective truss we have ever examined."—*Med. Press and Circular*.  
"An important feature is the peculiar form of the face of the pad, which allows pressure to be given by a flat surface or a more or less obtuse one, at discretion. The advantages of this truss are very marked."—*British Medical Journal*.  
"An important improvement. The practical surgeon will see the great advantages presented by this truss."—*The Lancet*.  
"Will supersede the old-fashioned, inefficient, and uncomfortable instruments which makers still continue to supply to sufferers from hernia."—*Hospital Gazette*.

Illustrated Particulars Gratis by Post from the Patentee—  
**B. F. ATKINSON, 7 Mill Street, Hanover Square [late 3 Henning's Row Charing Cross.**

ESTABLISHED 1830.

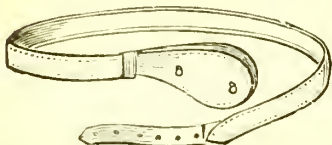


FIG. 1.

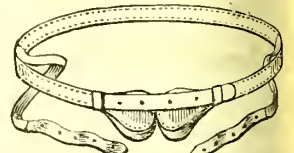
**TRUSSES.**

FIG. 2.

The best and Cheapest Trusses of all kinds in the Wholesale and Export Market are manufactured by

**LINDSEY & SONS**

ELASTIC STOCKINGS, SUSPENDERS, AND SURGICAL BANDAGES OF ALL KINDS.

**WHOLESALE & EXPORT.**

THE LARGEST SHIPPERS IN THE TRADE.

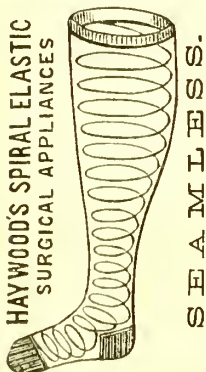
ILLUSTRATED PRICE LIST POST FREE TO ANY ADDRESS.

**32 LUDGATE HILL, & 40 GRACECHURCH STREET, E.C.**

**HAYWOOD'S  
PATENT SURGICAL APPLIANCES.**

**STOCKINGS, SOCKS, LEGGINGS, &c.,**  
MADE ON ENTIRELY NEW PRINCIPLES.

**SUMMER REQUISITES.**—Seamless Elastic Stockings, &c., no seams to irritate the Heels and Feet. Ladies' and Gents' Belts, Light Texture. Trusses and Belts for Bathing, Bathing Caps, Sponge Bags. Lawn Tennis and Athletic Supports for Wrists, Elbows, Knees, and Ankles. Magnetic Appliances, Chest-Expanding Braces, Bathing Gloves, Hay Fever Handkerchiefs, Stocking Suspenders, Perfume Diffusers, Seltzogenes, Druggists' Sundries. Lists on application.

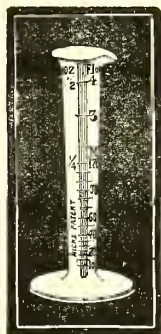
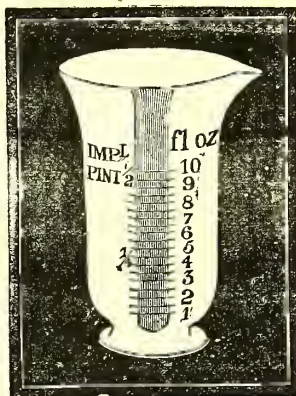
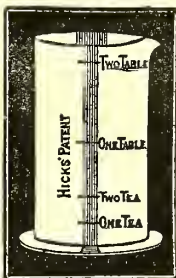
**J. H. HAYWOOD, CASTLE GATE, NOTTINGHAM.**





AWARDED  
GOLD MEDAL.

ENORMOUS SUCCESS!



I. I. EXHIBITION,  
LONDON, 1885.

WONDERFUL SALE  
ALL OVER  
THE WORLD.

## NEW PATENT OPAQUE GLASS MEASURES

For Domestic, Chemists', and Photographers' Use.

The advantage of these Measures over those of Plain Glass consists in their being made of Pure White Enamel Tubing, with the divisions and figures fired on in indelible black. They can therefore be read with the greatest ease in any light.

SOLE MANUFACTURER:—

**J. J. HICKS,** 8, 9, and 10, HATTON GARDEN, LONDON.

To be obtained of all Wholesale Houses and Chemists. Price Lists on application.

## FOREIGN SPECIALITIES & MEDICINES.

REVISED PRICE LIST.

# ROBERTS & CO.

## FOREIGN AND ENGLISH CHEMISTS,

WHOLESALE, IMPORT, AND EXPORT AGENTS FOR

## FOREIGN MEDICINES AND PATENTS, 76 NEW BOND STREET, LONDON.

Messrs. Roberts & Co. beg to inform the Trade that they are Agents for all the principal French and Foreign Specialities and Medicines, a large supply of which they have always on hand, and can supply on very favourable terms. They are in daily communication with their Paris House, and can offer exceptional facilities for procuring New Medicines, &c., &c., with very little delay. The following is a list of a few that they name *au hazard*, any that have a large sale:—

Per doz.	Retail	Per doz.	Retail	Per doz.	Retail	Per doz.	Retail
4/6.. Alcohol de Menthe Riebles	41/5	4/6.. Capsules Matico	36/	2/3.. Guyot's Goudron	18/	7/0.. Rabuteau's Elixir Ferrug.	65/
2/9.. Ditto ditto	21/8	4/6.. " Raquin	36/	11/.. Laville's Gout Tincture	91/10	2/9.. " Sirop	24/4
2/9.. Aubergier's Syrup	26/3	4/6.. " Mathey Caylus	27/	11/.. " Pills	91/10	4/0.. Racahout	31/
2/9.. " Pâte	15/4	4/6.. Chassaing's Wine	38/9	2/3.. Papier Fayard	13/6	4/6.. Reynal's Bougies	37/10
6/6.. Bay Rum	57/	2/9.. " Pills	24/4	1/1.. Ditto	7/3	2/9.. Ricord's Injection	24/4
5/6.. Ditto	31/	4/6.. Clin's Bromide Cam. Dragées	45/	4/.. Papier Fruneau	24/4	4/6.. " Capsules	36/
2/.. Belloc's Charcoal	15/4	5/.. Eau Botot (Genuine)	40/1	2/3.. Ditto	14/5	9/.. " Syrup	90/; 4/6; 42/
1/9.. " Lozenges	14/5	3/.. Ditto	24/4	1/9.. Pâte Aubergier	15/4	1/6.. Star Paper	11/
4/6.. Blancard's Pills	32/5	2/6.. Espic's Cigarettes	13/6	1/9.. " de Berthé	15/4	2/9.. Vallet's Pills	22/6
2/6.. " Ditto	18/	6/.. Elixir de Coca	56/9	2/9.. " de Coca	24/4	1/9.. " Ditto	14/5
8/.. Bron's Injection	27/	2/9.. Flon's Syrup	22/6	1/9.. " de George	14/5	4/6.. Veloutine (White, Pnk, Yel.)	37/10
8/.. Legend's Wine	36/	2/.. Gayetty's Paper	15/4	1/1.. " Ditto	9/	3/6.. " Ditto	27/
4/6.. Lily's Vinegar	32/5	2/3.. Granules Arsen. Acid	13/6	1/6.. " de Nafé	13/6	2/9.. Vichot's Trochisques	21/3
2/.. " Ditto	16/3	2/9.. " Iron	14/5	1/9.. " Regnaud	14/5	4/6.. Valentine's Meat Juice	38/
4/6.. Candé's (Lait Antéphilq.)	39/8	2/9.. " Soda	15/4	7/.. Pierlot's Valerian	59/5	4/6.. Vin de Coca Mariani	39/8
4/6.. Capsules Bromide Camph.	45/	2/9.. Grimault's Syrup Lime	23/5	2/9.. Rabuteau's Drgees Ferrug	24/4		

Special Quotations in large quantities.

Messrs. Roberts & Co. ont l'honneur d'informer MM. les Pharmaciens Spécialistes de France et de l'Etranger qu'ils se mettent à leur disposition pour des dépôts qu'ils voudraient établir à Londres. On peut avoir tous renseignements en s'adressant à leur maison de Londres ou à Paris.

SOLE AGENTS FOR MARIANI'S ELIXIR, EXTRACT PATE, PILLS, SYRUP AND WINE OF COCA, AND FOR VALENTINE'S MEAT JUICE AND LE GRAND'S ORIZA PERFUMERY.

Established]

House in Paris: **ROBERTS & CO.,** Rue de la Paix 5.

[1823.



# "Attractive, Effective AND Profitable Advertisement."

With all Orders for **£2. 2s. Od.** net we shall present a **LARGE SHOW CONE**, 18 inches high, made in "TERRA COTTA." This is a very attractive window ornament, and quite novel, the Model representing one of our No. 161 Cones with the lid off, and the Cone showing a splendid white in striking contrast to the red foot.

All our Cones are guaranteed **Pure Menthol**, and our Prices are the **LOWEST** in the market, if **SIZE** of Cone is taken into consideration. Our Boxes are all branded, and buyers may have their own names on for quantities of five gross free of charge; the Boxes do not then bear **OUR BRAND**.



No. 202.



Nos. 203, 205, 206.



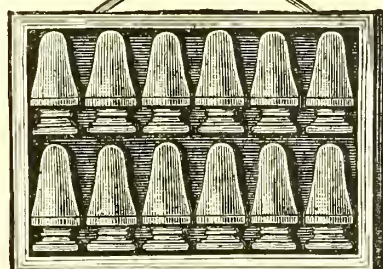
Nos. 55 &amp; 162.



Importers, Exporters,  
and the Home Trade  
please keep this page  
for reference.

Nos. 161, 162, 163, 201, 202, 203,  
204, 205,  
206, 207,  
208.

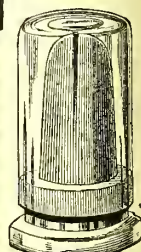
IN BOX  
LIKE  
THIS.



No. 200.



No. 163.

Nos. 214, 216,  
and 217.

Nos. 89, 90, and 92.

No. 201  
and 201B.

No.	Per dozen	Size
88. Hard Wood Boxes, Pedestal Shape	2 6	1/
89. Nickel Screw Capped Bottles	4 6	1/
90. " "	3 8	3d.
92. " "	4 2	1/
161. Boxwood Boxes, Acorn Shape	3 11	1/
162. " Pedestal " Screw Lids	5 0	1/
163. Vegetable Ivory, Acorn Shape	5 0	1/
200. Boxwood Boxes, Pedestal	3 0	6d.
201. " Barrel " Screw Lids	3 11	1/
201B. " " " Extra Large	5 10	1/
202. " " " Bullet	3 11	1/
203. " " " Cone	3 11	1/
204. Vegetable Ivory, Castle Shape	5 10	1/
205. Boxwood Boxes, Cone Shape, each in box	3 3	6d.
206. " " as No. 203, Large Size	4 8	1/
207. " " Draughtsman Shape	4 11	1/

A Sample Box containing one each of above, 8/; by post 9/.

In ordering through Merchants and the Wholesale Trade, from whom our preparations may be had at above prices, please state distinctly

5 per cent. Discount for  
Cash with Order.

"ACME BRAND" AND HOCKIN'S.

Special Quotations for  
Large Quantities.

MANUFACTURED BY

## HOCKIN, WILSON & Co.

13-16 NEW INN YARD, TOTTENHAM COURT ROAD, W.



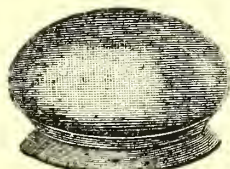
# Profitable Lines in Druggist Sundries

## CHEAP AND GOOD MENTHOL CONES.

- 7.—Draughtsman shape, polished willow  
boxes, usual 1/ size ..... 21/ gross net.  
2.—Bullet shape, ditto, ditto ..... 14/ „  
Usual 9/4 size.  
6.—Cone shape, ditto, ditto ..... 18/ „  
Extra large Cone.  
Prices for not less than  $\frac{1}{2}$  gross, one pattern or  
assorted.



No. 202/s.



No. 207/s.



No. 206/s.

## FULLER'S EARTH.

Elegant decorated tin boxes, which may be used as puff  
boxes when empty.

No. 624.—1 dozen on cartoon, 3/6 doz.

Also be had filled with Violet Powder, No. 624/v, 3/9 doz.

## LITTLE BEAUTIES FEEDER.

THE BEST 1/- FEEDER MADE.



Can in box, with spare tube and brushes, and equal to most  
1/6 feeders. 5/6 per doz. Send for sample dozen.

## SMELLING BOTTLES.



No. 310.



No. 624.

No. 310.—Watch Bottles, filled  
with sponge, and neatly  
labelled in black and red.  
Boxed in 1 doz. .... 3/6 doz  
By gross ..... 3/3 „

No. 624.—New Pattern Capped  
Bottle, as block, filled.  
Boxed in 1 doz. .... 5/ doz.  
By gross ..... 4/9 „

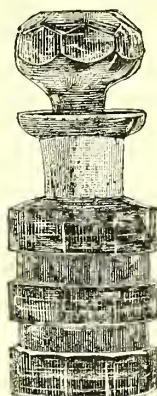
## THE BEST 6d. PERFUME EVER OFFERED.

*A splendidly Cut  
Bottle.*

Jockey Club, White  
Rose, Millefleur.  
Assorted in box.

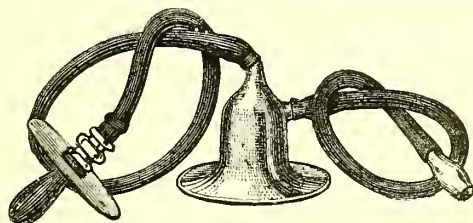
Neatly boxed in  
 $\frac{1}{2}$  doz.

No. 621.— 3/6 per  
doz.



## NEW DOUBLE-ACTION NIPPLE SHIELD,

As noticed in THE CHEMIST AND DRUGGIST, June 23, 1888.



Price 6/6 dozen.

Fitted with our New Registered Mouth-piece to enable tubes  
to be used separately, and to prevent the child sucking air.

SEND FOR SAMPLE DOZENS AND YOU WILL BE WELL SATISFIED.

# HOCKIN, WILSON & CO.

14, 15, & 16 New Inn Yard, TOTTENHAM COURT ROAD, LONDON, W.

Please give Numbers when ordering, to prevent mistakes.

Special Prices to Large Buyers.



# MEDICINAL GELATINE CAPSULES

				Containing	30	36	48
Cascara Sagrada (5 mins.), in round boxes	Per dozen	7/-	In oval screw-cap bottles	—	—	—	—
Castor Oil, in square boxes	...	5/-	Ditto ditto	5/6	—	8/-	—
Cod Liver Oil, in square boxes	...	7/-	Ditto ditto	—	8/-	—	—
Copaiba, without Name, in oval boxes	...	4/9	Ditto ditto	5/6	—	8/-	—
Copaiba, with or without Name, best, in oval boxes	...	5/9	Ditto ditto	6/6	—	9/-	—
Copaiba, Flexible, in oval boxes	...	6/-	Ditto ditto	6/9	—	9/6	—
Copaiba, Flexible, larger, in oval boxes	...	8/-	Ditto ditto	—	10/-	—	—
Copaiba and Cubeb, in square boxes	...	9/-	Ditto ditto	—	11/-	—	—
Copaiba, Cubeb, and Buchu, in oval boxes	...	8/-	Ditto ditto	—	10/-	—	—
Copaiba, Cubeb, and Sandal-wood Oil, Flexible, in oval boxes...	...	17/-	Ditto ditto	17/-	—	25/-	—
Oil of Male Fern (18 drops), in square boxes	...	17/-	Ditto ditto	—	18/-	—	—
Sandal-wood Oil, Flexible, English, in round boxes	...	26/-	Ditto ditto	—	30/-	—	—
Sandal-wood Oil, Flexible, Foreign, in round boxes	...	20/-	Ditto ditto	—	23/-	—	—
Tar, Norwegian, in square boxes...	...	6/-	Ditto ditto	—	7/-	—	—
Terebene, pure (10 drops), in round boxes	...	12/-	Ditto ditto	13/-	—	20/-	—
Turpentine, in square boxes	...	6/-	Ditto ditto	—	7/-	—	—

SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

S. MAW, SON & THOMPSON, LONDON.

## MAW'S MENTHOL CONES



Fig. 5.



Fig. 1.



Fig. 3.



Fig. 4.

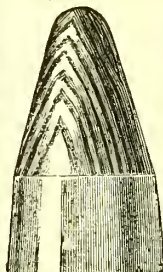


Fig. 6.

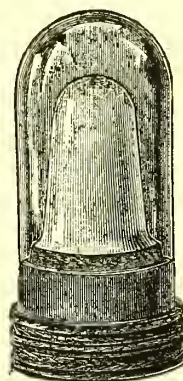


Fig. 7.

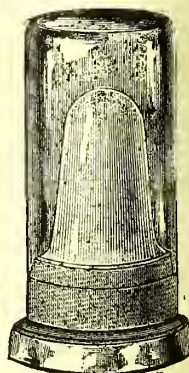


Fig. 8.

Fig. 1.	In Ebony Cases, flat for the pocket	...	...	...	...	...	Per doz.	6/-
	In Boxwood Cases, per doz., 3/- and 4/-; in Vegetable Ivory	...	...	...	...	...	"	6/-
Fig. 3 & 4.	In Boxwood Cases, per doz., 2/8 and 4/-; in Vegetable Ivory	...	...	...	...	...	"	4/- and 6/-
Fig. 5.	In White Opaque Glass Jars with Red Celluloid Caps	...	...	...	...	...	"	2/6 and 3/6
	Mounted, in Stoppered Bottles	...	...	...	...	...	"	6/6
Fig. 6.	Mounted on Vegetable Ivory, in Glass Bottles, Screw Metal Caps	...	...	...	...	...	"	4/6
Fig. 7.	On Boxwood Mounts, Glass Covers	...	...	...	...	...	"	3/6 and 5/9
	On new Glass Mounts, Glass Covers	...	...	...	...	...	Per doz.	3/6, 4/-, 5/6, and 8/-
Fig. 8.	On Glass Mounts with Glass Covers	...	...	...	...	...	Per doz.	4/6 and 6/-

SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

S. MAW, SON & THOMPSON, LONDON.



# SHIRLEY'S A1 BRAND MENTHOL.

## QUITE NEW.

The Menthol is fixed on a China Stopper, which is covered with a glass shade; always clean.

Buyer's own name printed round the China if order is given for a large quantity.

Doz.  
Style 26A. 6d. size.. 3/6  
Style 27A. 1s. size.. 6/3

## GOOD SELLING PATTERNS.

No.	Description.	Price per doz
1	6d. Glass Bottles with Metal Screw Cap	3 3
1b	6d. Blue Ditto Ditto	3 4
9a	1s. or 1/6 Boxwood, Skittle-shaped	7 6
9c	1/6 or 2s. Do.	9 6
9s	6d. or 9d., good value, Do.	4 0
17L	1s. Draughtsman Shape, Boxwood only, extra large	6 6
17s	6d. Ditto Boxwood	4 0
19	6d. Boxwood, Egg Shape, on elegant Card	3 0
21a	1s. Menthon on Boxwood stopper, covered with glass shade, very attractive, 12 in a box	6 3
23a	6d. Ditto Ditto 12 in a box	3 6
24	6d. Boxwood, Bottle Shape, very attractive.	3 6

A Dummy Cone, 9 inches high, given free with all orders of 20s., or two if 30s. order is placed.

## SPECIAL PRICES to LARGE BUYERS.

## BOUND TO SELL.

Menthon in Boxwood, with views of London on one side of the case, beautifully painted—St. Paul's Cathedral, Westminster Abbey, Windsor Castle, Tower of London, Westminster Bridge, Houses of Parliament.

## A NOVELTY

and adds greatly to the value.  
No extra is charged.  
11a. 6d. .. 3/6 per doz.  
14a. 1s. .. 6/3  
Please state Views required when ordering.



Chemist's own name printed on back of the boxes without extra charge, provided a gross is ordered. This opportunity of advertising yourself and increasing your trade should not be lost.

ORDER AS A1 BRAND.

## SHIRLEY'S 2nd QUALITY, PUT UP FOR THOSE WHO WANT CHEAP GOODS.

	Per Dozen	Per Gross		Per Dozen	Per Gross
2. No. 100.—Polished Willow Box	1/5	13/	4d. No. 103.—Boxwood Pedestal (large)	2/9	27/
2. „ 101.—Willow Acorn	1/10	17/	4d. „ 104.— „ Barrel shape	2/9	27/
2d. „ 102.—Boxwood Pedestal	2/4	24/	6d. „ 105.— „ Button shape	3/4	34/

These prices are net, and the boxes have not the printed directions on them.

## DON'T MAKE A MISTAKE!!!

The following Sell Well and bear a Good Profit:—

### EU DE COLOGNE

Watch-shape Bottles, with Nickel Cap.

Bottle is neatly labelled, contains an ounce of best quality Perfume.

### GOOD SELLING LINE.

per doz., 12 in a Box.

### FULLER'S EARTH

Attractively put up in earboard boxes, with label (3 colours).

Can be had either White Precipitated, as preferred by many, or ordinary Prepared Fuller's earth.

Price, 3s. per dozen.

Special terms for large quantities.

Order as A1 Brand.

### TOOTH SOAP,

#### WHITE ROSE.

Nicely got up in a hinged patent Box (Jahncke's), neatly labelled.

The Soap itself is highly scented and fragrant.

4s. per dozen.

### FUMIGATING RIBBON.

Elegantly put up in round blue and gold Boxes.

Indispensable to the Sick Room, as, after being lit a few minutes, a vapour ascends perfuming the whole room.

3s. 6d. per dozen.

A Show Stand given away with an order for 3 dozen, together with two yards of Ribbon to practically show its perfume.

### SMELLING SALTS.

The best Bottle of the Season: it has a good base, and stands well; is attractively labelled, and enclosed in a hinged outer. Filled with strongest ammonia, and agreeably perfumed.

Price, 2s. per dozen, 20s. per gross. Special quotations for 5 or 10 gross lots.

A similar Bottle, only stoppered, 4s. per dozen. 43s. per gross.

### LOOFAH GLOVES, SOCKS, & BATH BELTS.

(Special Agent for Elste's Patent.)

#### JUST THE THING FOR THE SUMMER.

LOOFAH SOCKS, wide and narrow	6/ per dozen pairs
„ GLOVES, Loofah and White Tureo, or Double Loofah	6/6 per single dozen
„ Loofah and Coloured Tureo	7/
„ BELTS, Loofah and White Tureo, or Double Loofah	13/6
„ „ Loofah and Coloured Tureo	14/6

ARTHUR W. SHIRLEY, 30 Paternoster Square, LONDON, E.C.



**S. SAINSBURY'S**

A Highly-perfumed Scent,  
prepared from the finest  
ENGLISH LAVENDER,  
without any foreign whatever.

176 & 177 STRAND, LONDON.

Wholesale and Shipping terms on application.

**Lavender Water.****PRECIPITATED CHALK,** WHITEST AND PUREST.

CHEAPEST SELLERS IN THE MARKET.  
ALSO CHEMICALS, DRUGS AND OILS.

APPLY TO  
**AUG. LEVERMORE & CO.,**  
8 LIME STREET LONDON, E.C.

**FRED<sup>K</sup> FINK & CO.,**

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES: Glycerine—Gum Arabic—Gum

Tragacanth—Pure Beeswax—Honey—Vanilloes.

**THE PERFECT SURGICAL BANDAGE.**

Preferred to all Makes hitherto used.

In Cases of Twelve Six-yard Rolls, Unbleached, 2 ins. wide, 3/9; 2½ ins., 4/1;  
3 ins., 4/6; or, Case containing Twelve Six-yard Rolls of each width, 12/.

Bleached, 2 ins., 4/; 2½ ins., 4/4; 3 ins., 4/10; 3 dozen Case, 13/.

Free by post, to any address in the United Kingdom, for *proven orders only*.

SPECIAL TERMS FOR QUANTITIES.

MANUFACTURED BY

The Bole Hall Mill Co., Tamworth, Staffordshire.

**E. BRAMWELL & SON, ST. HELENS, LANCASHIRE.**

**EPSOM SALTS (PURE).  
CREAM CAUSTIC SODA.  
SULPHITE OF SODA**

(PHOTOGRAPHIC AND COMMERCIAL).

**GLAUBER SALTS.**

**CARBOLIC POWDER**

IN BAGS, CASKS, OR CANISTERS.

5%, 10%, 15%, and 30%.

**EITHER PINK OR WHITE.**

SAMPLES AND PRICES ON APPLICATION. [2]

**GRINDLEY & CO., POPLAR, LONDON, E.**

**CARMINE PUR.**

Chemists and others requiring Pure Carmine of the **FINEST QUALITY** will find this far superior to any other. It is intensely rich and brilliant in colour, perfectly soluble, and offers great advantage in price.

1 oz., 2s. 3d.; 4 oz., 8s.; 1 lb., 30s., nett cash, free by post.

**J. SELLERS, 57 Farringdon Road, London, E.C.**

**RUBBER TYPE**

On Metal body, perfectly accurate, for instantly making a RUBBER STAMP for Special Labels, &c., saving expense and delay. Complete Outfits from 7/6. Send for Specimens and Price List to the Patentee, **E. M. RICHFORD, Dept. 44 Snow Hill, London,**

Manufacturer of Rubber Stamps, Presses, the "Nigropadd" and "Effective" Self-Inking Pads, &c., and Stamp-making Outfits. Chemists in all parts of the world can add largely to their profits by pushing our Goods. Liberal terms.

**HOOPING COUGH! HOOPING COUGH!! HOOPING COUGH!!!**

Positively and quickly cured by the New Discovery,

**KEMP'S WHOOPALINE**

(TRADE MARK.)

Is a certain cure in all cases of Hooping Cough, Bronchial Disorders, and all affections of the Chest and Lungs. Price 1/1½ and 2/9 per bottle. Prepared only by

**W. H. KEMP, 220 Holloway Road, LONDON,**

Wholesale Agents: Messrs. BURGESS, BURBIDGES & CO., 16 Coleman Street, London, E.C.

**HONEY-DROP—FOR THE SKIN**

Retail—6d., 10d., 1/6, and 3/-

This splendid preparation, which is selling immensely, can be had wholesale from

**W. EDWARDS & SON, LONDON; EVANS, GADD & CO., EXETER**

Special Terms for Agencies. Enquiries solicited.

Sole Proprietor and Manufacturer,

**GEORGE STOCKER, CHEMIST, EXETER.**

**KERNICK'S  
LIME JUICE CORDIAL**

(SWEET OR DRY),

FRUIT SYRUPS ETC.

LIST FREE.

**KERNICK & SON, CARDIFF.**

**EMP. ADHÆSIVUM OPT.**

16 INCHES WIDE.

On Glazed Calico, 2/9; on Shirting, 4/3 per doz. net cash

**JOHN QUILLIAM & CO.** Plaster Works, Cowburn Street, Manchester.

**BOTTLE & PARCEL WAX**

AND

**DIRECTION TAG MANUFACTURERS.**

SAMPLES AND PRICES ON APPLICATION.

**FISHER, CLARK & CO., Boston, Lincolnshire.**

**CARMEL.**

This Castile Soap is manufactured at Mount Carmel, Palestine, from pure Olive Oil pressed on the spot. As an emollient for the skin and complexion it is the most ancient and best soap.

**AGENTS WANTED IN EVERY TOWN.**

DEPOT FOR GREAT BRITAIN AND COLONIES—

**MOUNT CARMEL SOAP CO., 24 Charles Street, LONDON, E.C.**  
Hatton Garden.



**WILLOW****PAUL METZ,**  
NEW ZEALAND AVENUE,  
LONDON, E.C.Wholesale Buyers of these  
goods should write to me for  
samples and prices before  
ordering elsewhere.**BOXES****"HOME, SWEET HOME."****QUIBELLS'**  
**INFALLIBLE DISINFECTANTS**

AGENTS WANTED WHERE NOT ALREADY APPOINTED.

Write for Prices and Terms to [2]  
**QUIBELL BROS.,** Manufacturing Chemists, Newark-on-Trent**HAGUE'S CLINICAL THERMOMETERS.**Fully adjusted, have plain, easily-read scale, wide bore, and indestructible  
Sent, post free, in Nickel or Ebonite Case, for 3s. Kew Certificate, 1s. 6d.  
Magnified Index, 3s. extra. "Half-Minute" C. Thermometers, 4s. each.  
Clinical and Surgical Instruments and Appliances of best workmanship at most  
moderate prices.**HAGUE, 75 Pentonville Road, LONDON.****GEORGE HAYNES & CO.**

Pampstead Cotton Mills, Cherry Tree Lane, Stockport,

MANUFACTURERS OF

**BLEACHED AND ABSORBENT WOOLS,**

Grey Wool, Coloured Wools, and Jewellers' Sheets.

WHOLESALE AND EXPORT ONLY.

Telegraphic Address—"HAYNES STOCKPORT."

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**GELATINE PILL-COATING MACHINE.**

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**SMALL MACHINE TO COAT 96 PILLS EACH TIME, £3 3s.**

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1

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(VIN. AURANT, P.B.)

Specially brewed for Quinine Wine, does not deposit. Is well adapted for Export,  
as it will keep good in any climate. In casks, 13, 27, 56, 112, 140 gallons; small  
casks 3s. 9d. per gall. carriage allowed. In wine bottles (not less than 3 doz.), at  
9s. per doz., including bottles. Cases extra and returnable.  
Sample six stamps. Special quotations to large buyers.**GEO. DURRANT & CO., Hertford.****Critchley's**  
**Starch Gloss**Makes Starched Linen like new. Does not stick to spider-like Materials.  
Once tried always wanted. Used in the Royal Laundries. Sold every-  
where, in Packets, 1d., 3d., 6d., and 1s. each. Write for quotations.Prepared only by  
**T. CRITCHLEY,**  
BLACKBURN, and  
1 & 3 Australian Avenue,  
LONDON, E.C.**PINE'S DEVONSHIRE OILS**

PRICE

1 dozen, **13/6** } Per doz. net in  
3 " **12/6** } Wine Bottles.  
6 " **11/6** } CARRIAGE PAID.  
2 " **10/6** } Single Sample  
Bottle, 1/9.**FOR HORSES, COWS, SHEEP, AND LAMBS.**THESE CATTLE OILS are prepared from the Original and Valuable Recipe of WILLIAM YOUATT PINE, and  
are unsurpassed, their great sale being a sufficient guarantee of their EXCELLENCE.

PREPARED AND SOLD WHOLESALE BY

**WALTER GREGORY, 31 Fore Street, WELLINGTON, SOMERSET.****CARBOLIC POWDER FROM £2 10s. TON.**

BEST QUALITIES CARBOLIC PINK POWDER, 5/-, 7/6, and 10/- per cwt., in bags or casks.

**HANDSOME LARGE DECORATED BLACK AND GOLD TIN BOXES,**

Size 7½ ins. by 3 ins. diameter, holding 1½ lbs. (usual 1/- size), 3/- dozen.

Ditto, LARGE SIZE, holding about double quantity, 4/6 per dozen.

**PURE CARBOLIC ACID, 99** per cent. strength (No. 5) and **CHLORIDE OF LIME** below market prices.**BROWN CARBOLIC ACID (Crude),** 6d., 9d., 1/-, and 1/6 Gallon.**DARK SANITARY FLUID** (to be used with 80 parts of water, making a milky fluid), **2/- PER GAL.****10 PER CENT. DISCOUNT OFF LIST PRICES FOR CASH WITH ORDER.**All goods delivered free in London or suburbs, or to rail or docks. **THE CHEAPEST HOUSE IN THE TRADE.****HAMILTON & CO., 118 HIGH ST., WANDSWORTH, LONDON, S.W.**



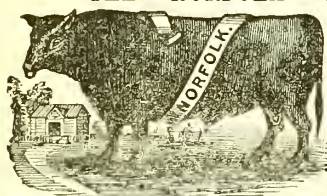


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**CARBOLIC POWDER (PINK) in 1 Cwt. 2 Cwt. CASKS 1lb & 1/2 Packages.**  
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**CARBOLIC FLUID in 6d 1/1 & 1/6 STOPPED BOTTLES** **CARBOLIC & GLYCERINE SOAP in 1/4 lb. TABS**  
**FREE FROM POISON AGREEABLE IN SMELL.** **THE GOVERNMENT SANITARY CO., LONDON E.** **TO BE HAD FROM ALL WHOLESALE DRUGGISTS**

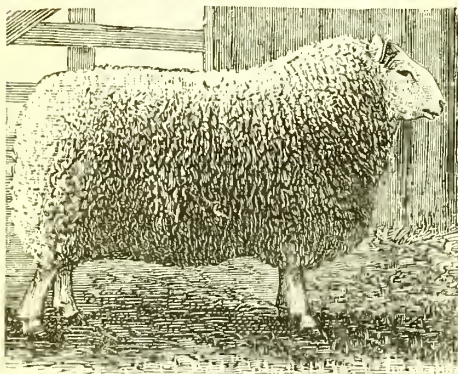
**THE "NORFOLK" VETERINARY REMEDIES** are the result of 40 Years' large practice,



And have an enormous sale in virtue of their superior quality and moderate price. Used on the Royal Farms, and by thousands of Cowkeepers, Flockmasters, and Farmers in the kingdom. The leading Remedies are The **"NORFOLK" CONDITION DRENCHES** for Cows, Bullocks, or Sheep; a sure preventive of Fever, Blood Diseases, and ordinary ailments; 9s. per dozen, 3 dozen 22s. 6d. The **"NORFOLK" CORDIALINE, or PAIN KILLER**, the most powerful Restorative known for Horses, Cattle, or Sheep in Colic, Calving, Lambing, &c.; 12s. per dozen, or 3 dozen 31s. 6d. The **"NORFOLK" RED WOUND OILS**, a rapid and sound cure for all Kicks, Cuts, Accidents, &c.; 3s. 6d. per pint, or 36s. per dozen. The **"NORFOLK BROWN SPRAIN OILS**, for Lameness, Old Swellings, Rheumatism, &c.; 3s. 6d. per pint, or 36s. per dozen. Usual discounts to the Trade, and special terms for Shipping Orders. Manufactured for the Proprietor only by

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## REVOLUTION IN THE FLY PAPER TRADE.

It must have been observed that for some time the public have become disgusted with the old poisonous fly paper, and have taken somewhat readily to a sticky sort of substitute.

The advertiser has perfected and patented a Fly Paper of this nature, which will certainly be the leading thing in this way in the future. It is a well got-up and effective paper, and is as cleanly to handle as a sheet of note-paper.

In the advertiser's own retail establishment last season the sale of this was simply enormous, as they were freely used by tradespeople (butchers, bakers, grocers, and confectioners), who would not dare to risk the danger from dead poisoned flies about their stock. Owners of horses and cowkeepers were delighted with them, as they spared the animals the torture from this source.

From the nature of the article it cannot very well be stocked by Wholesale Houses for distribution to the Retail Trade, but the Parcel Post will carry them direct from the maker, and Postal Orders will facilitate remittance.

The price is 4 6 per gross (carriage free), but where a large trade is developed more liberal terms will be given.

Send sample order for small lot, and while the season is on you are bound to do a big thing.

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Used on the Royal Farms at Windsor, Osborne, and Sandringham, and by the principal Stockbreeders everywhere for nearly 60 years.



# DAY, SON & HEWITT'S HORSE, CATTLE, AND SHEEP MEDICINES.

### THE CHEMICAL EXTRACT.

For assuaging pain and inflammation in all wounds, saddle galls, strains, bruises, swellings and relaxed tendons in Horses. For painning after calving and lambing, and for swollen udders and sore feet.

2s. 6d. per Bottle; 1-dozen Box, 7s. 6d.

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Celebrated for inflammatory disorders, such as fevers, pleurisy, foot-and-mouth complaints, yellows, surfeit, and red-water. Also for difficult calving and lambing. Admirably adapted for cleansing and checking feverish symptoms in Cows and Ewes after a bad time of parturition.

For Sheep, 3s. 6d.; for Cattle, 13s. per dozen Box.

### THE GASEOUS FLUID.

Unmatched for colic or gripes and debility in Horses, for colds, chills, shivering fits, flux and diarrhoea in Cattle, Calves, and Sheep. For Ewes weakly after lambing and blown Cattle and Sheep, its effects are marvellous.

20s. per dozen Box.

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Used as laudanum in uncontrollable spasmodic pains and violent bowel complaints. Invaluable for parturition in Mares, Cows, and Ewes.

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### THE RED PASTE BALLS and RED POWDERS.

For ill-conditioned Horses and Colts; invaluable after hard hunting or driving. For coughs, colds, staring coat, itching, swollen legs and want of strength. The powder given in the feed will produce fine appetite and tone.

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### THE BLACK PHYSIC BALLS.

These Balls are matchless for thoroughly cleansing the system of all impurities, and for assisting in the expulsion of Worms. Their purgative action soon relieves Costiveness of the Bowels, and checks all Feverish Symptoms arising from gross habit.

Price, 8s. per dozen; Box containing 3 dozen, 23s.

### THE BRONCHOLINE.

The great and reliable remedy for Husk or Hoose in Cattle, Heifers, Calves, and Sheep. Its gaseous odour destroys the worm or parasite in the windpipe, removes the hard cough, and soothes the lungs and other organs.

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A small work published by us on the general ailments of stock, their treatment and cure.

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The Stockbreeder's Medicine Chest.	No. 1 contains a complete assortment of all our preparations for treating diseases of stock generally,	Price
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# DAY & SONS'

WORLD-FAMED HORSE, CATTLE, AND SHEEP MEDICINES,

*May be had separately or in combination, as they are found in the World-famous*

## "ORIGINAL" UNIVERSAL MEDICINE CHESTS,

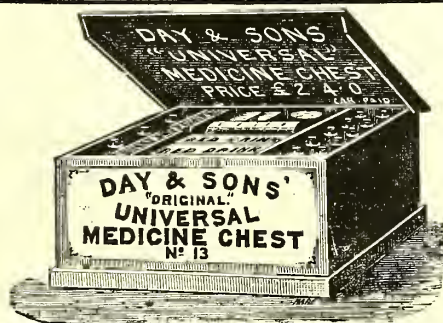
FOR ALL DISEASES of HORSES, CATTLE and SHEEP.

No. 11, Price £5, and No. 13, Price £2 4s. Carriage Paid to any Port in Great Britain and Ireland.

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### GOLD & SILVER PRIZE MEDALS.

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28

### GOLD & SILVER PRIZE MEDALS.

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The above Chests are a marvel of cheapness and excellence, and the greatest boon to all Stock-keepers; the Chest No. 11 contains the following world-famed and matchless remedies:—

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PURIFIED DRIFFIELD OILS	pre-eminent for Kicks, Cuts, Wounds, Swollen Udders, Difficult Lambing and Calving, &c.	0	10	0
BLACK DRINK	matchless for Colic or Gripes in Horses; Scour in Cattle, Calves or Sheep; Hoven, Debility, &c.	0	19	0
RED DRINK	the Great Remedy for Fevers, Inflammation, or Chills in Cattle, Cleansing, and Milk Fever	0	12	0
WHITE OILS	without equal for Sprains, Strains, Swellings, Weak or Stiff Joints, &c.	0	5	0
ALTERATIVE POWDER	excellent for Colds, Coughs, Off-Appetite, Heat Lumps, Blood Disorders, &c., in Horses	0	14	0
EW E DRENCH	most essential for cleansing after Lambing, preventing Milk Fever; for Red Water, &c., in Sheep	0	7	0
FOOT ROT OILS	of proved power in cases of Foot Rot in Sheep, and Foul in the Feet of Beasts	0	2	6
HUSK DRAUGHT	the most successful remedy for Husk, Hoose, or Host in Stock	0	5	0
AROMATIC CHALK MIXTURE	a rare antacid and stomachic for Scour or Diarrhoea in all Animals	0	2	6
HORSE POWDER	unequalled for Influenza, Bad Coughs or Colds, Severe Derangement, &c., in Horses	0	8	0
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WORM DRAUGHT	the Medicine for Worms in Horses, Colts, or Sheep	0	5	0
EQUINE BLISTER	renowned for Old Sprains, Swellings, Splints, and Curb, &c.	0	2	6
ALOEATIC PHYSIC BALLS	a grand Purgative, imparting vigour and warding away disease	0	3	6
EVERYDAY FARRIERY	giving symptoms and treatment, and much information	0	1	6

Chest, value 10s., gratis.

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CHEST No. 13, price £2 4s.,

contains an assortment of first 9 articles, with GUIDE EVERYDAY FARRIERY. Chest, value 6s., gratis.

The "ORIGINAL" HORSE-KEEPERS'

MEDICINE CHESTS, price £2 14s. and £5 (chest gratis). Specially arranged for Disorders in Horses.

The "SAMPLE MEDICINE CHEST,"

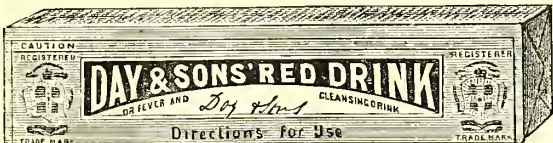
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The following Remedies are the most successful and enjoy the LARGEST SALE in the World.



Price 10s. per half-dozen, or 19s. per dozen.

FOR Colic or Gripes in Horses and Cattle.  
FOR Debility and Chills in all Stock.  
FOR Scour in Calves and Lambs.  
FOR Hoven or Blown Cattle and Sheep.  
FOR Shivering Fits in Horses.  
FOR Weakness after Lambing or Calving.



FOR Fevers, Yellows, Indigestion, and Dulness.  
FOR Red Water, Costiveness, and Mawbound.  
FOR Disordered System in Cattle.  
FOR Bad Cleansing after Calving.  
FOR Preventing Milk Fever and Inflammation.  
FOR Purifying and Increasing the Milk.

PRICE—12/ PER DOZEN PACKETS.

The "EW E DRENCH" for Sheep, 3s. 6d. per dozen.

ALL THE MEDICINES WILL KEEP GOOD MANY YEARS.

CAUTION—Beware of Strange Imitations and note Name and Only Address in England,

# DAY & SONS, CREWE, CHESHIRE, ENGLAND

May be obtained through any Wholesale House.



# W. CLARK'S SPECIALITIES FOR HOUSE, STABLE, & FIELD.



## BOOT TOP FLUID,

For cleansing and preserving Boot Tops, totally eradicating all stains, and restoring their original colour.

Made in five colours—White, Light Brown, Nut Brown, Mahogany, and Pink.

## BOOT TOP POLISH

Is a cream to be used after the Fluid to polish the Top. It also nourishes the Leather.



## BOOT TOP POWDERS.

IN ALL COLOURS.

These Powders have been before the public for 30 years, giving the highest satisfaction, keeping Boot Tops equal to new. These Powders never turn Black.



## SADDLE PASTE.

This preparation is for softening and preserving all kinds of Saddles, Bridles, Driving Reins, and every description of Brown Leather. It cleans, softens, and imparts a handsome appearance.



## BREECHES PASTE.

This Matchless Paste for Leather, Kersey, and Cord Breaches, &c., will be found far superior to any that has ever been offered to the public; it will cleanse and beautify, rendering them soft and pliable; does not require rubbing, and will not rub off. Warranted perfectly free from dust, and needs but one trial to prove its superiority over all others.



## WATERPROOF HARNESS BLACKING.

Neither requires oil, dye, or any other preparation; and it is the only one ever perfected for preserving, rendering supple, and giving

A POLISH, EQUAL TO PATENT LEATHER,

to all kinds of Black Leather Harness, Carriage Heads, Aprons, &c.

None other is used in the Queen's Establishments.



## METROPOLITAN POLISH.

For restoring and preserving all kinds of Patent, Enamel, and Morocco Leather; also Brown Leather Boots, &c. It renders them perfectly elastic. It will not attract heat. Likewise for cleaning and restoring Oil Paintings, Carriage Panels, &c. For French Polished, Japanned, and Varnished Goods it will be found unequalled.



## NE PLUS ULTRA RAVEN JET FRENCH VARNISH.

WARRANTED NOT TO CRACK.

It is entirely free from any offensive smell common to most polishes. It instantly produces the most brilliant polish on the ordinary Walking as also Patent Dress Boots and Shoes for morning or evening wear.



## ELASTIC WATERPROOF VARNISH.

For Hunting, Shooting, Fishing, or ordinary Walking Boots, Coach and Cab Heads, Phaeton, Gig, Cart Aprons, &c., especially old Enamelled Leather, and for all kinds of Indiarubber Goods, particularly for Goloshes. It will not crack or wear brown. Applied to the soles of boots and shoes they will be proof against wet.

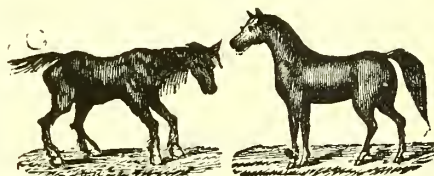
## HOPLEMUROMA.



Cures horses' brittle and shelly feet, sand cracks, scabby toes, diseased frogs, fever, quittor, rapidly increasing the growth of the horn, and preventing horses throwing their shoes, making the hoof tough, and prevents all lameness. This preparation is warranted to cure all the above diseases, has been before the public for 30 years, and never known to fail. No owners of horses should be without this invaluable preparation.

## MARVELLOUS EMBROCATION.

FOR HORSES AND CATTLE.



Takes away all soreness, and gives immediate relief and speedy cure in cases of lameness, bruises, sprains, enlarged joints, over-reach, splints, curbs and wind galls, also chapped heels, sore throats, influenza, and rheumatism.



## HORSE BALLS—

Fever, Cough, Diuretic, Astringent, Condition, and Alterative.

## COLIC DRAUGHTS.

For Flatulent and Spasmodic Colic.

## FEVER DRAUGHTS.

For Shivering, Dulness, &c.

## CRACKED HEEL LINIMENT.

For Horses.

## HEALING LINIMENT.

For Scratches, Cuts, &c.

## BLISTERING OINTMENT.

For Splints, Spavins, &c.

## CONDITION MEDICINE

ALTERATIVE POWDER.

## FEVER POWDERS.

Prepared by W. T. CLARK, M.R.C.V.S.L.

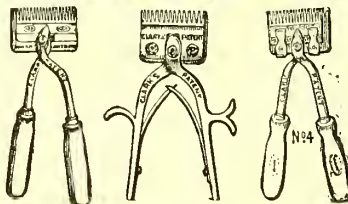
## MARVELLOUS EMBROCATION.

FOR DOMESTIC USE.



Cures Bronchitis, Sore Throats, Rheumatism, Lumbago, Wheezing in the Throat or Chest, Sciatica, Sprains, Bruises, &c.

## HORSE CLIPPERS.



No. 1.—This well-known Instrument has been before the public for 16 years, and has given universal satisfaction, and is everywhere acknowledged to be by far the best, and therefore the cheapest, in the market.  
No. 2.—One-handed Clipper for heads, manes, quaters, and difficult parts, leaving one hand at liberty to hold the horse, thus enabling the clipping to be performed by one man only. This Clipper is also used for cutting the human hair.  
No. 4.—A two-handed instrument, with the Patent Grasshopper Springs over the plates. This improvement renders the machine simply perfect, producing a softness and ease of motion not to be surpassed.

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INVENTORS AND MANUFACTURERS NATIONAL CHEMICAL CO., LONDON

THE N. C. COS. PACKAGES HAVE STOOD THE TEST FOR MANY YEARS, AND CAN ALWAYS BE RELIED UPON TO GIVE SATISFACTION.

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SEE THEIR PRICE LISTS.

SILVER MEDAL  
I.H.E. 1884.



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OF OTHER SO-  
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## FOUND DEAD

BY SANFORD'S RAT POISON.

have found 145 rats killed in my farm buildings by it."—C. Wilson Offord.  
"It is the most certain remedy I have ever tried. Little pellets about the size of  
are put in the rat holes or in their runs. I destroyed over 200 rats from one  
dug with it."—C. Cook, Grange Farm, Ellesmere, Salop. It is, without doubt,  
the best ever introduced. Price 6d., 1s., 2s., and 3s., of Chemists.

SANFORD'S MICE POISON for Houses, Buildings, Corn Stacks, &c. Cannot  
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Loyal terms to Chemists. Wholesale of Barclay & Son, Sanger & Son,  
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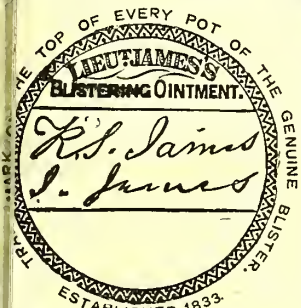
ESTABLISHED 1833.

## HORSES.—LIEUT. JAMES'S BLISTER.

### CAUTION.

The annexed Label is at  
the top of every Pot of  
the ORIGINAL and only  
GENUINE BLISTER.

The Messrs. Barclay & Sons,  
95 Farringdon Street, London,  
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H. JAMES, SOLE MANUFACTURER, STANFORD, FARRINGTON, BERKS  
Advertised in "Bell's Life" 54 years. Beware of Spurious Imitations

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### BRADLEY & BOURDAS'S

### ALBATUM or WHITE ROUGE.

For Cleaning Gold, Silver, and Plated Goods.

Since its introduction as a substitute for the ordinary Rouge, a quarter  
of a century ago, the sale has amazingly increased both at home and  
abroad. A trial is only needed to prove its superiority over other plate  
powders in use. Sold in Boxes at 1s. and 2s.; Tins, 6s. 6 Pont Street,  
Belgrave Square, and 48 Belgrave Road, London, S. W.

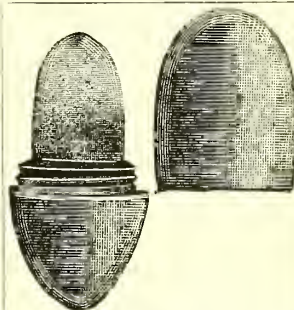
## THE CHEAPEST 6d. MENTHOL CONE.

Manufactured  
of  
Finest Japan  
Menthol.  
Guaranteed  
perfectly pure

TRADE,  
3/- per doz.

3 dozen

Carriage paid



No. 12.—Boxwood.

Other Cones  
to Retail  
2d., 3d., & 4d.  
each, equally  
cheap.

Write for  
Price List.

SAMPLE  
POST FREE  
on receipt of  
business card.

CASTLE MENTHOL CO., 11 Farnival St., Holborn, LONDON.

## SPONGE IMPORTERS.

## M. PETERSON & CO.

(ESTABLISHED 1870),

75 ST. ANNE STREET, LIVERPOOL.

FOR HOME, FOREIGN, & COLONIAL MARKETS

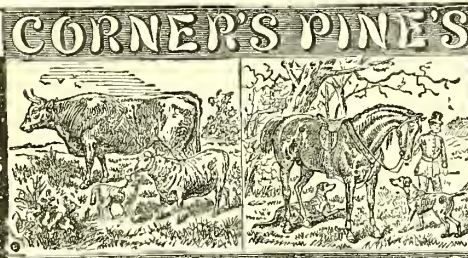
IE HUSK & SCOUR  
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CURED BY  
THE DEVONSHIRE  
COMPOUND.

distinct preparation  
on the Devonshire Oils,  
announced to be a  
vergein remedy which  
over fails to cure this  
deadly disease.

In Bottles, 2/-

ESTABLISHED  
1830  
FOR CATTLE  
HORSES  
COWS & CALVES  
SHEEP & LAMBS  
DOGS &c.  
Both  
For Outward  
and Inward  
Use.

MANUFACTORY  
WELLINGTON, SOM.



DEVONSHIRE OILS

SOLD  
EVERYWHERE  
THE GREAT  
REMEDY  
FOR ACCIDENTS  
AND ANIMAL  
PAINMENTS  
Supplied  
by all  
Wholesale  
Houses

PRICE 2/-

CORNER'S FAMIL  
EMBROCATION  
SHOULD BE USED  
ON THE CHEST FOR  
MEASLES.

Cures Sore Throats, Colds,  
and Pains in the Chest,  
Rheumatism, Lumbago,  
Scalds, Burns, Chilblains,  
Sprains, &c., &c.

1s. 1 1/2d.

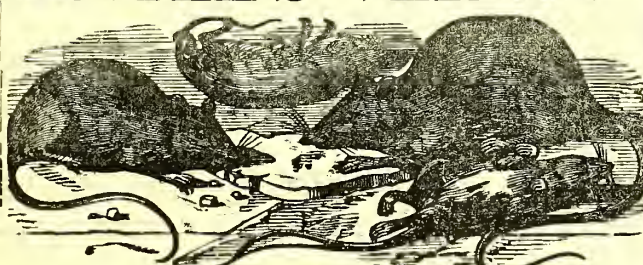
SEE THOUSANDS OF  
TESTIMONIALS

REGISTERED TRADE MARK, "DEVONSHIRE."

BEWARE OF FRAUDULENT IMITATIONS.

## BATTLE'S VERMIN

## KILLER.



TRADE MARK.

{ Mice eat it readily and  
Die on the spot.

Has an immense Sale, and wherever introduced never fails to give satis-  
faction.—Mice appear attracted to it as by magic, eat it readily, tumble over,  
and die on the spot. Rate usually die in their runs.—Parties troubled with  
Vermin may be cleared at once, either from Stacks, Houses, or Ships.

TESTIMONIALS.—Thousands might be published.

From Mr. THOMAS COLTON, Agent for Selby.—A friend of mine pur-  
chased a Packet of your VERMIN KILLER last night, doubting its efficacy  
to-day he called in to say that he had found fifteen dead mice, and had only  
used part of a packet.—From Mr. EDWARD STURDY, Flemington Mills.—  
I duly received by post the Packet of your VERMIN KILLER, and found it  
as represented in your advertisement. It speedily destroyed all the mice in  
my granary. I enclose 2s. for two more Packets.—Leeds, November 8th,  
1887.—I have tried BATTLE'S VERMIN KILLER, and have found it most  
effectual in clearing my premises of LARGE QUANTITIES OF RATS.—  
THOMAS S. CROSLAND.—Mr. Stead.

Sold in Packets, 3d., 6d., and 1s. each.

SOLE PROPRIETOR:

Mr. J. R. BATTLE, Chemist, Lincoln, England.  
No Chemist or Storekeeper should be without a supply.



# DRUGGISTS' CONFECTIONERY.

## ROBERT GIBSON & SONS,

Medicated Lozenge Manufacturers,

CARLTON WORKS, ERSKINE STREET, HULME, MANCHESTER,

1 Australian Avenue, London, and 44 Alter Wall, Hamburg.

### GIBSON'S SUPERIOR BOILED SUGARS

Have gained a High Reputation everywhere. **FOR EXPORT TRADE.** They are put up in 1-lb., 2-lb., and 5-lb Bottles. Packed in Casks or in 1 doz. Cases as required, and delivered F.O.B. at any Port in England. These Sweets are absolutely pure. We specially recommend

Lime Fruit Tablets, Everton Toffy, Mixed Fruit Drops, Cough Drops, Raspberry Drops, Lemon Tablets.

### CACHOU PEARLS,

Musk, Rose, Mint, and other Flavours. In 1-lb. White Glass Bottles. Bottles free.

### COMPRESSED CHLORATE OF POTASH PELLETS,

And PELLETS of every description, put up in 1-lb. White Flint Glass Bottles, with Boxwood Top Corks. Bottles not Charged.

## HIGH - CLASS LOZENGES

OF EVERY DESCRIPTION.

Chlorodyne Cough Lozenges, Chlorodyne Jujubes, Peppermint Lozenges,

In every variety of size and strength. Curiously Strong, and Multum in Parvo Mints give the utmost satisfaction. Medicated Lozenges of Pharmacopœia Strength.

DIGESTIVE TABLETS. VOICE AND THROAT LOZENGES for Singers and Public Speakers.

## ORIGINAL SUGAR WORM CAKES

Have an immense sale, both at home and abroad; will keep in any climate, and give entire satisfaction. Put up in Tin containing 3 doz., 6 doz., and 12 doz. cakes.

### THROAT HOSPITAL LOZENGES

(As per T. H. Pharmacopœia).

All Lozenges are sent out in 2-lb. and 4-lb. Bottles (*bottles free*), but allowed for if returned.

PROPRIETARY LOZENGES CAREFULLY PREPARED, STAMPED, AND CUT TO ANY SIZE OR SHAPE.

PRICE LISTS SENT ON APPLICATION.

**E. C. RICH COMPANY, Limited, Agents, United States.**



S. MAW, SON & THOMPSON'S  
**CHERRY TOOTH PASTE,**  
 FOR CLEANING AND PRESERVING THE  
**TEETH AND GUMS.**

WARRANTED TO KEEP IN ANY CLIMATE.

Round Earthenware Covered Boxes, Burnt-in Labels, 3s. 9d. and 7s. 0d. per dozen.  
 SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

S. MAW, SON & THOMPSON, LONDON.

S. MAW, SON & THOMPSON'S  
**AROMATIC TOOTH PASTE.**

WARRANTED TO KEEP IN ANY CLIMATE.

Square Earthenware Covered Boxes, Burnt-in Labels, 10s. 6d. per dozen.  
 SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

S. MAW, SON & THOMPSON, LONDON.

S. MAW, SON & THOMPSON'S  
**INDIAN BETEL NUT**  
 OR  
**ARECA TOOTH PASTE.**

WARRANTED TO KEEP IN ANY CLIMATE.

Round Earthenware Covered Boxes, Burnt-in Labels, 3s. 9d. and 7s. 0d. per dozen.  
 SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

S. MAW, SON & THOMPSON, LONDON.



EVERY CHEMIST should keep in Stock

# "LA BRILLANTINE" METALLIC POWDER

(REGISTERED),

Being the best and most effective Polishing Powder for Metals, especially Brass. It is used by the Life, Horse, and Dragoon Guards, the Metropolitan Fire Brigade, &c. Sold in 1d. packets, 6d. and 1s. boxes. Send Postal Order for 6s. Sample Order to the Proprietors,

**J. F. BAUMGARTNER & CO.**

15, CD. (22) NEWMAN STREET, OXFORD STREET, LONDON, W.

Or any Wholesale House.

Beware of Imitations.

## ANILINE DYES

TO SUIT ALL TRADES.

**BEST SPIRIT BLACK**  
IN THE MARKET.

Mahogany Stain  
Ebony Stain  
Oak Stain  
Walnut  
Stain

**PRONK, DAVIS & CO.**  
3 TRINITY PLACE,  
TOWER HILL, LONDON, E.C.

COLOURS.  
CHEMICALS.  
INDIGO PASTE.

**CUDBEAR**

DYEWOOD EXTRACTS.

BRONZE POWDERS AND METAL LEAF.

## BOORD & SON, RECTIFYING DISTILLERS & WINE MERCHANTS,

ALLHALLOWS LANE  
and  
BARTHOLOMEW CLOSE, } LONDON, E.C.,

OFFER LOWEST QUOTATIONS, ON APPLICATION, FOR

## FINEST RECTIFIED SPIRITS OF WINE

Methylated Spirit and Finish; Finest Orange Wine, Sherries,  
and Malagas for Medicated Wines.

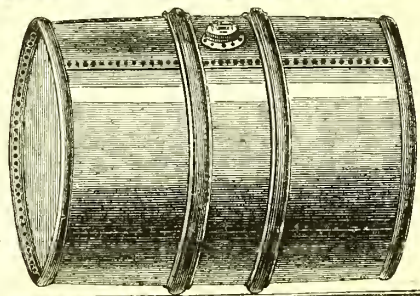
## B. NOAKES & CO.,

MANUFACTURERS OF  
METALLIC CASKS, DRUMS, & KEGS,  
AND OF THE AIR-TIGHT



**PATENT SELF-FIXING TINS.**

IRON BARRELS,  
CAPACITY 40 TO 120 GALLONS  
AS PER ILLUSTRATION.



These large Iron Casks, similar to sketch, can be handled with equal facility to wooden barrels, and, owing to their strength and durability, can be used over and over again for an indefinite period. They are perfectly liquid tight, being tested at a very high air pressure, and, unlike wood, do not absorb any of the contents. They are all fitted with interchangeable screw bungs, and can also be fitted with screw plug in head, for draw-off tap.

They are specially adapted for all kinds of Chemical Products, Sulphuric Acid, Glycerine, Spirits, Oils, Turpentine, Petroleum, Benzoline, Varnishes, Tar, Naphtha, Mineral Extracts, and Inflammable Liquids of every description.

We are making them in three qualities, "Black Iron," "Lead Coated," and "Tinned."

PRICE LIST ON APPLICATION.

Cable and Telegraphic Address—"NOAKES LONDON."

Offices and Works: 142 SPA ROAD, BERMONDSEY, LONDON, S.E.



TELEGRAMS— { ALPHA BRAND LONDON.  
PHOENIX BRISTOL.

LONDON TELEPHONES— { OFFICE 2098.  
WORKS 5016.

**Actual Manufacturers**  
OF  
**WHITE LEAD, WHITE ZINC,**  
**HIGH-CLASS VARNISHES,**  
**PAINTS, COLOURS**  
IN ALL GRADES FOR  
ALL  
PURPOSES.

**THE REFINERS**  
OF  
"PHOENIX"  
**COTTON OIL**  
AND  
"ALPHA BRAND"  
RAW AND BOILED PAINT OILS.  
SOFT SOAP BOILERS.

**MANUFACTORY:**  
Alpha Works, Millwall.  
OFFICE: 16 Fish Street Hill, E.C.

**OUR VARNISHES**  
are manufactured  
of carefully-selected  
materials, and tried before  
being sent out.

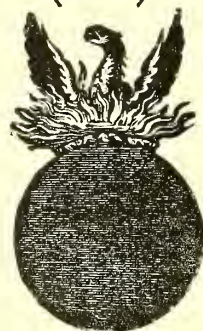
**ANTI-FOULING COMPOSITIONS**  
FOR SHIPS' BOTTOMS.

**CONSERVATIVE FLUIDS.**

**CONTRACTORS TO THE LEADING ENGLISH AND FOREIGN RAILWAY AND STEAMSHIP COMPANIES.**

**OIL BOILERS AND REFINERS**

**IMPORTERS OF**  
**ROSEMARY, ROSIN,**  
**PETROLEUM**  
and its various products.  
d, Castor, Olive,  
arm, & other Oils.  
use Manufacturers.  
**GENERAL**  
**SALTERS.**



Ball denotes Colour  
of Paint.

**COLT HURST**

**THE**  
**NEW ART**  
**ENAMELS**

"PHOENIX BRISTOL" BRAND,

In **100** shades. Packed in various  
sized Tins, or Bulk at special prices.

**HYGIENIC WASHABLE DISTEMPERS**

In subdued colours. The perfection of Water Paints.

SHADE CARDS ON APPLICATION.

**PHOENIX VARNISH STAINS (STAIN AND VARNISH COMBINED).**

Natural Wood Colours, easily applied, dries quickly, with permanent gloss.

**READY MIXED PAINTS**  
"PHOENIX BRAND."  
Standard quality, and acknowledged  
to be the best in the market.  
Packed in lead, tin, or lever tops,  
in 1, 2, 7, and 14 lb. tins.  
Artists' Colors in Tubes  
for Decorative purposes.  
Special Shade  
Cards.

**MANUFACTORIES:**  
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OFFICES: Temple Gate.

AMPLES AND SPECIAL QUOTATIONS FOR ALL ARTICLES USED IN THE ARTS AND MANU-  
FACTURES CONNECTED WITH THE OIL, COLOUR, AND VARNISH TRADES.



# W. H. B. REFINED } BEESWAX. W. H. B. WHITE }

Bernard Dyer,  
B.Sc. (Lond.), F.C.S.,  
F.I.C., Analytical  
and  
Consulting Chemist.

Laboratory,  
17 Great Tower  
Street,  
London, E.C., Nov. 25, 1886.  
I have analysed a cake of Wax stamped  
W.H.B. sent to me by a London House  
on behalf of Messrs. W. H. Bowdlear &  
Co. of Boston, Mass., U.S.A. It consists  
of pure bleached beeswax unadulterated  
with paraffine, fat, or other of the various  
materials with which beeswax, and  
especially white wax, is commonly adul-  
terated.

Bernard Dyer, B.Sc., F.C.S., F.I.C.,  
Member of the Society of Public Analysts.

CABLE ADDRESS—"BOWDLEAR BOSTON."

**W. H. BOWDLEAR & CO.,**  
147 Pearl Street, BOSTON, MASS., U.S.A.

Our goods may be obtained in single  
case lots of any of the leading  
Wholesale Druggists in the Northern  
and Midland Counties, and of  
LOTHOUSE & SALTER, Hull;  
COLTHURST & HARDING, Bristol;  
GOODALL, BACKHOUSE & CO., Leeds;  
GLASGOW APOTHECARIES COMPANY,  
Glasgow; OLDFIELD, PATTERSON &  
CO., Manchester.

We will deliver our Goods in 5-cwt.  
lots ex quay, in any City which is  
the Terminus of a Steamship Line  
throughout the Kingdom.

# PURE SPIRITS OF WINE.

60 o.p., 20/3 per gall. ; 56 o.p., 19/9 per gall.

1/ per Gall. Discount for Cash with order.

Further allowance for quantity. **STEAM STILL ONLY.**

**GEORGE PHILLIPS & CO.,**  
ST. ANDREW'S DISTILLERY, CLERKENWELL RD.,  
LONDON, E.C.

# S.V.R.

PURE GRAIN SPIRIT 56 O.P. ... 18/5

Do. Do. DOUBLE DISTILLED 18/9

Cash with Order. Reductions for Larger Quantities than Two Gallons.

S. S. & Co's Speciality for Perfumery. Samples free.

**STEPHEN SMITH & CO., BOW, LONDON, E.**

# JONES & COMPANY, METHYLATED SPIRIT MAKERS,

Regent Wharf, Copperfield Road, Mile End, London, E.

FROM RATCLIFF.

SAMPLES AND PRICES UPON APPLICATION.

**BURROUGHS**  
Spiritus Rectificatus, P.B.

**SPIRITS  
OF WINE**  
56 o.p. at  
19/1 Cash.

The BEST English Grain Spirit  
Free from Fusel Oil.  
Chemically Pure.  
Special Quotation for Quantity.

**ORANGE**

**WINE,**  
MEDICINAL SHERRY.  
AT LOWEST PRICES.

**JAMES BURROUGHS**  
LONDON, S.W.

**GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.**

**JOHN OAKEY & SONS,**

MANUFACTURERS OF

Glass Paper, Emery and Glass Cloth; Emery, Black Lead, Emery Wheels, Pumice,  
Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish,  
Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

**OAKEY'S WELLINGTON KNIFE POLISH,**

Prepared expressly for Oakey's Patent Rubber Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines.  
Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

**OAKEY'S NON-MERCURIAL SILVERSMITH'S SOAP,**

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

**OAKEY'S "POLYBRILLIANT" (Registered).**

A Magio Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Pastes.  
Tins 1d., 2d., 3d., and 6d. each.

**WELLINGTON BLOCK BLACK LEAD,**

In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

**WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London, S.E.**

Highest award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.



# THE GREATEST NOVELTY OF THE SEASON.

Over 250,000 Packets have been sold at the several Exhibitions in England and Abroad during the last few years.

# PETAL DUST

(REGISTERED),  
THE GREAT FLORAL AIR PURIFIER,  
FOR THE WARDROBE OR POCKET, DRAWING ROOM AND BALL ROOM.

An everlasting and delicious perfume, a concentration of the loveliest flowers and health-giving Pines, combined with the purifying properties of the Blue Gum Tree of Australia ("Eucalyptus Globulus," and "Eucalyptus Amygdalina"). This unique combination is a powerful antiseptic, and has an ozonising influence on the atmosphere while it oxidises, it is an invaluable requisite for the sick room, and a packet worn on the person, or placed between the bed-linen, &c., is refreshing and invigorating to the patient and attendants.

A packet placed in the Wardrobe or Clothes Chest will prevent mildew and destroy moth.

Beg a powerful ozoniser and disinfectant, a packet carried in the pocket renders the danger of infection from Fevers, infinitesimal, whilst its exquisite fragrance makes life charming and enjoyable.

Hundreds of Testimonials have been received from all parts of the World.

PETAL DUST is put up in illuminated packets and attractive fancy counter boxes; prices as follows:—

Size, in Show Boxes of 3 dozen	...	...	...	...	...	...	...	6/9 each	} Net.
" " 1 "	...	...	...	...	...	...	...	3/6 "	
" " 1 "	...	...	...	...	...	...	...	7/- "	

SPECIAL QUOTATIONS TO SHIPPERS AND THE WHOLESALE TRADE.

Merchants will find this one of the most Attractive and Saleable Articles ever introduced.

"Petal Dust" is Processed only by

ROSMARINE MANUFACTURING CO., PHILADELPHIA.

LONDON OFFICE—54 STAMFORD STREET, S.E., where all communications must be addressed.

# KOPKINSON & CO.'S

NON-POISONOUS AND HARMLESS

# SANITARY FLUID.

A 6-ounce to a Gallon of Water makes the BEST, CHEAPEST, and SAFEST DISINFECTANT for Hospital, House, Yard, or Stable use.

Kills filth on all animals. Destroys insects on plants. Does not Stain Linen. Has not a disagreeable smell.

A 6-ounce Bottle makes a good leading 1/ Disinfectant.

IN BARRELS (FREE) OF 40 GALLONS, PRICE 4/ PER GALLON, F.O.B.

KOPKINSON & CO., MANUFACTURING CHEMISTS, NOTTINGHAM.

# KAMPHORKALK

A fresh Disinfecting Powder. It is a combination of soluble Chlorides and Camphor.

THE ADVANTAGES CLAIMED FOR IT ARE—

Free from Poison. It is free from Smell (except a slight odour of Camphor). It is Soluble in Water. It is White in Colour. It is not injurious to any fabrics. It is Effectual and Cheap.

EXTRACTS FROM REPORTS.

Dr. WANKLYN says:—"It is a most powerful disinfectant."

Dr. REDWOOD says:—"I have made several experiments for the purpose of testing the efficacy of 'Kamphorkalk' (Cooper's Camphorated Lime), and am satisfied that it possesses the properties claimed for it, and that it may with advantage be used in cases where infective disease is present, and for arresting the decay of animal or vegetable matter from which noxious effluvia may emanate."

Sold retail in pretty decorated Canisters, 2 lbs., 1/; 6 lbs., 2/ each. In 28-lb. Kegs and 1-cwt. Casks much cheaper in proportion.

Special Wholesale Agents—Messrs. Sanger & Sons, 489 Oxford Street, London.

Prepared and Manufactured by—ALFRED HORNBY, RICHMOND, SURREY.



# BETTS & CO., LIMITED

(ESTABLISHED IN 1840),

SOLE MAKERS IN GREAT BRITAIN OF

## METALLIC CAPSULES,

AND PATENTEES OF THE

### COLOURED SIDE MARK, LABEL, AND OTHER SPECIALITY CAPSULES

(For the Prevention of Fraud and Refilling of Old Labelled Bottles), as supplied to BASS &amp; CO., HENNESSY AND MARTELL COGNAC, and the leading Brewers and Bottlers of Wines and Spirits throughout Europe.

### PLAIN ORDINARY CAPSULES,

For Small Phials, 2s. 6d. and upwards per 1,000, according to size, style, design, and quantity.

SPECIAL CONTRACTS FOR CONTINUOUS DEALING.

Manufacturers of Pure English-made Bottling and Package Tinfoil, from 1s. per lb. and upwards; Mixed Foil (Foreign Quality), from 6d. per lb. (according to gauge); Patent Barrel Packages and Snuff Canisters, Tea Packages, &c.

## COLLAPSIBLE TUBES AND SPRINKLERS FOR PERFUMERS AND OTHERS.

MANUFACTORIES:—LONDON: Chief Office and Factories, Wharf Road, City Road, E.C.; and Holloway and Batavia Mills, Holloway, N.W.—BIRMINGHAM: Moor Green Fields.—PARIS: Office, 65 Rue Verrerie.—BORDEAUX: Office, 3 Quai de Chartrons; Factory, Monrépos, Floirac.

## PATENTEES OF HYDRAULIC & MECHANICAL PRESSURE CAPSULING MACHINES,

ESPECIALLY ADAPTED FOR CHEMISTS' COUNTERS.

Largely in use by the Trade, and efficiency guaranteed for all sizes of Bottles, at Royalties from 5s. to £2 2s. per annum.

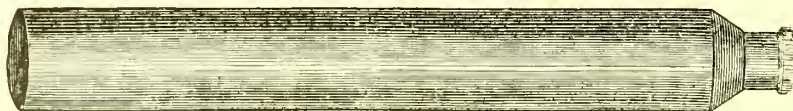
## H. BROOKS, PEEL & CO. [ESTAB. 1810]

### COLLAPSIBLE TUBE MANUFACTURERS,

Patentees and Sole Manufacturers of the PORTABLE METAL SPRINKLER STOPPER, and Dealers in GLASS BOTTLES FOR PERFUMERS AND OTHERS.

Steam Factories: 31 Lyme Street, Camden Road (Offices), and Bartholomew Road, Kentish Town, London, N.W.

### COLLAPSIBLE TUBES OF ALL SIZES.



For Perfumes, Artists' Colours, Soaps, Cosmétiques, Creams, Oils, Varnishes, &c. These Tubes are inexpensive and portable, and may be applied to many useful purposes besides those above mentioned.

SOLE MANUFACTURERS AND PATENTEES OF

### THE PORTABLE METAL SPRINKLER STOPPER,

With Cork fitted thereon for bottles of any size, and having apertures of various dimensions, especially adapted for Perfumes, Hair Washes, Lime and Glycerine Essences, &c. These handsome stoppers give a character and finish to the most ordinary bottles to which they may be applied. Gilt or plain; and put up if required in handsome glass lid boxes, suitable for shop counters and show cases, at moderate prices.

### THE "TORSION" PATENT SPRINKLER

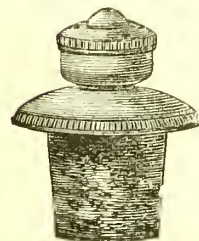
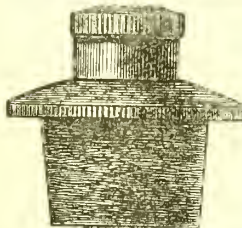
The two designs, Nos. 18A and 19A, are those to which we direct special attention, as sizes being in general use other sizes will follow promptly to meet all requirements, on which Caps with two or more holes will be introduced to meet the public taste.

Particular attention is called to the latest improvement in our Patent Metallic Stopper, the "Torsion." This New Stopper adheres to the design of the original patent, which has been universally acknowledged as an ornamental and inexpensive article for the Toilette, as possessing all the advantages of a "Permanent and Indestructible Stopper, suitable for Bottles of all Sizes and Shapes," with the additional security it affords, that the Cap can never be entirely unscrewed, consequently it cannot be lost. It is especially effective as a Sprinkler, while giving a more prompt and copious, yet economic, supply, through the improved action of the Cap. Such combined advantages, in an article of exquisite finish, have long been desired, and it is thus submitted for general approval, and its usefulness when tried will be appreciated by all.

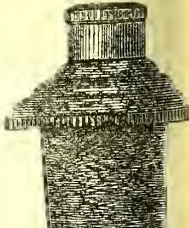
Illustrations, Price Lists, &c., can be had on application, or through any Wholesale House in town or country. All orders received direct will be promptly attended to.

CAUTION.—All Stoppers of our Manufacture are made of Pure Tin, and have the name of H. BROOKS & CO. stamped on the under side of the rim.

All Tubes are made of Pure Tin unless specially ordered of Mixed Metal, from the smallest size up to 13 in. by 2½.



No. 1



No. 19A



**CAUTION.**

**A. S. LLOYD'S EUXESIS,**  
FOR SHAVING WITHOUT SOAP, WATER, OR BRUSH.

THE GENUINE Euxesis bears the following distinctive marks:—

- 1—My full name AIMEE LLOYD on cap of tube.
- 2—The words "Prepared only by his Widow" and my signature of AIMEE LLOYD in BLACK INK across labels, in addition to my late Husband's signature in black ink.

**AIMEE LLOYD**

(WIDOW OF A. S. LLOYD, formerly of 27 GLASSHOUSE STREET.)

**3 SPUR STREET, LEICESTER SQUARE, LONDON.**

**A. S. LLOYD'S EUXESIS,**

For Shaving without Soap, Brush, or Water.

**CAUTION.**

The only Genuine has a yellow label printed ONLY in Black Ink, and bears the original address of the late inventor, "27 Glasshouse Street, Regent Street," the proprietors having purchased, under an administration suit, the Secret, Trade Mark, Goodwill, and Premises:

SOLE PROPRIETORS

**R. HOVENDEN & SONS,**  
**LONDON.**

**PRESENTED GRATIS!!**

**A FAMILY OUTFIT OF RUBBER TYPE**

TO FORM ANY NAME, WITH EVERY 1/- BOTTLE

USEFUL GIFT CONSISTS OF TWO SETS OF INDIA RUBBER ALPHABETICAL LETTERS IN A HOLDER WITH ENLARGED 1/- BOTTLE OF MARKING INK. — SEE YOU GET IT.

Unprecedented success. Large and increased sale.

With CRYSTAL PALACE  
JOHN BOND'S GOLD MEDAL  
MARKING INK.

Order sample doz. We guarantee most satisfactory result, and repeat order.

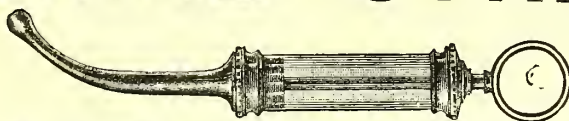
WORKS—75 SOUTHGATE ROAD,  
LONDON, N.

**GLYCERINE SYRINGES.**

Pewter, 7/6.

Vulcanite, with glass

barrel, 18/-



All Vulcanite, 21/-

Vulcanite, with straight points, 13/6 per doz.

**BATHING CAPS**

In great variety at 5/-, 6/-, 7/6, 9/-, 12/6, 13/6 per dozen.

LONG BAGS.

PADDLING DRAWERS.

ILLUSTRATED PRICE LIST ON APPLICATION.

**SCHUTZE & CO.,** Shaftesbury Hall, 36a Aldersgate Street, E.C.



# BARNETT'S

(HERBERT H. BARNETT, late of New Zealand)

## PERFUMES.

THE GENUINE

# 'OPOPONAX'

FRANGIPANI  
WHITE ROSE  
JOCKEY CLUB

STEPHANOTIS  
WOOD VIOLET  
RONDELETIA

And many others, in  $\frac{1}{4}$ ,  $\frac{1}{2}$ , and 1 lb. Bottles.

Considering Quality and Strength, these are the Cheapest and most saleable in the Market.

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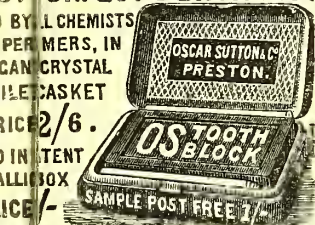
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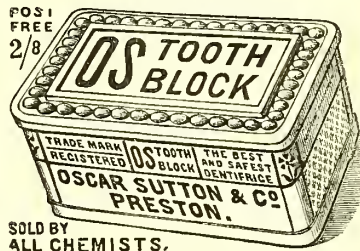
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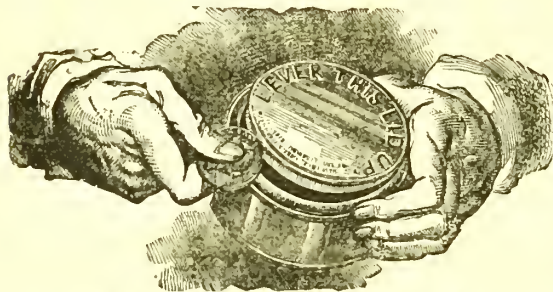


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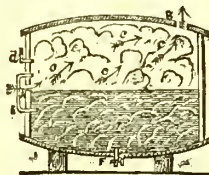
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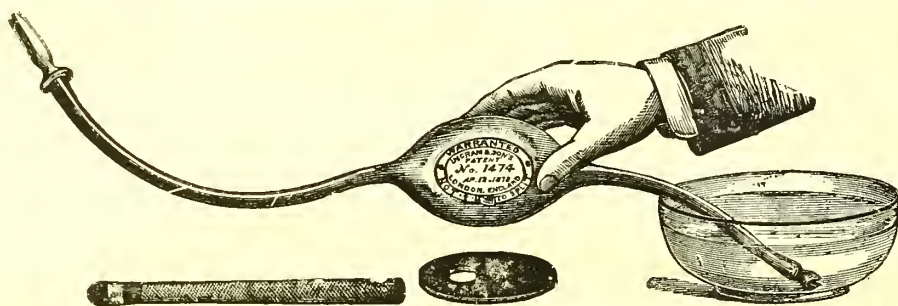
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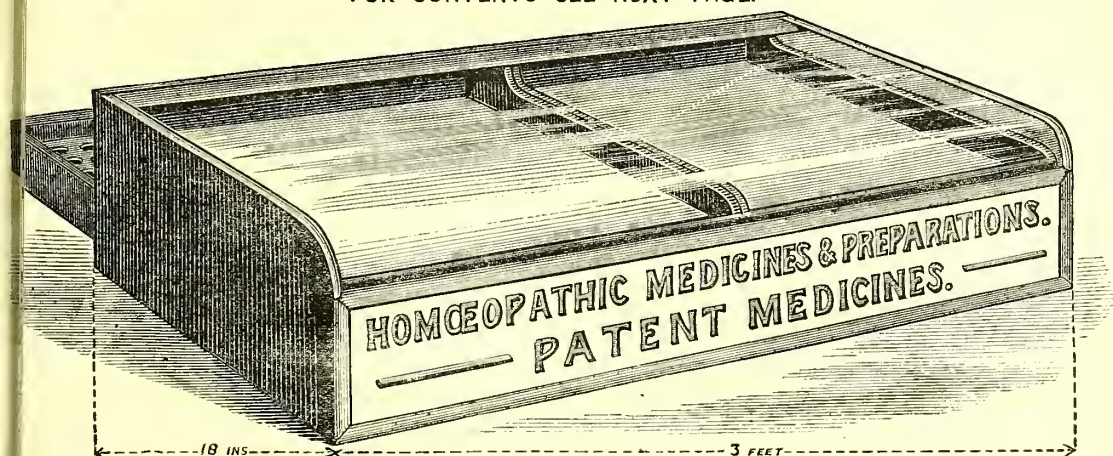
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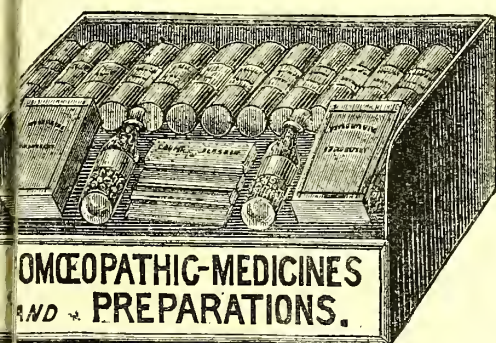
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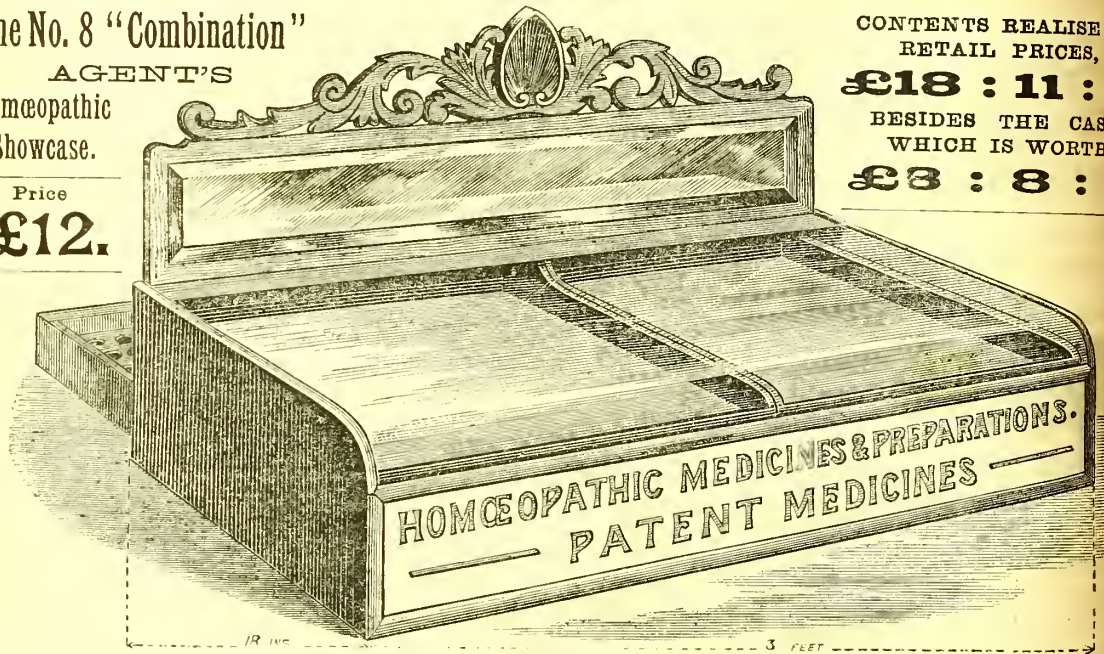
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SEE PREVIOUS PAGE.



A copy of this Supplement is inserted in every number issued of "THE CHEMIST AND DRUGGIST."

# THE CHEMIST & DRUGGIST

## SUPPLEMENT.

Businesses Wanted.  
Businesses for Disposal.  
Premises to Let.  
Auction Sales.

SATURDAY, JULY 28, 1888.

Partnerships.  
Situations Vacant.  
Situations Wanted.  
Miscellaneous.

This Supplement will be given free to any Chemist and Druggist or Assistant who will call for it at 42 Cannon Street on Friday afternoon, or will be posted on Fridays to any one who sends an addressed postal wrapper.

ADVERTISEMENTS for this Supplement can be received on FRIDAY MORNING, first post, though it is requested that these may be sent in as early in the week as possible.

EXCHANGE COLUMN ADVERTISEMENTS will appear on page 38 (bottom folio), and must be received not later than THURSDAY AT NOON, to appear in the issue of the Saturday following.

All Advertisements for this Supplement and Exchange Column must be prepaid. Remittances payable to EDWARD HALSE and crossed MARTIN & Co.

OFFICES: 42 CANNON ST., LONDON, E.C.

### EXCHANGE COLUMN FORMS

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MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

#### CHEMISTS' TRANSFER AGENTS,

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—£700.—LONDON, N.E.—Large handsome Pharmacy for immediate disposal; returns, under management, about £700; can easily be doubled by a good man; large attractive house and shop; very convenient; price £600, or offer.

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10.—£664.—HERTFORDSHIRE.—Unopposed country Business, of good class; returns 1st year £664; well-fitted shop and good stock; house contains 8 rooms and shop; rent £23 yearly, on lease; price £350; part may remain; anyone with £200 cash will be treated with.

11.—£1,700.—EASTERN COUNTIES.—Good market town; Mixed Retail Business; returns £1,700 yearly, with *good profits*; comfortable house; moderate rental; terms, small premium and valuation of stock and fixtures.

12.—£1,350.—SOUTHERN COUNTY.—First-class Pharmacy for disposal; returns nearly £1,350; large handsome double-fronted shop, fairly stocked; small premium and valuation; terms can be arranged.

13.—£700.—KENT.—Good business town; Retail and Dispensing Business, of good class; returns £700 yearly, increasing; large handsome shop, and good stock; good house, attractive garden, &c.; price £600.

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#### N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country; particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION. Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the special attention of a London agent.

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25 Years' Experience Valuation for Probate, &c.

	Returns	£750.	Rent	£60.	Price	£350
1. BIRKENHEAD ...	"	1,200.	"	60.	"	1,150
2. STAFFORDSHIRE	"	1,650.	"	75.	"	1,000
3. DURHAM COUNTY	"	1,300.	"	55.	"	700
4. CHESHIRE .....	"	240.	"	40.	"	225
5. LEYTONSTONE...	"	400.	"	45.	"	187
6. LONDON, N.....	"	400.	"	25.	"	200
7. NOTTINGHAM ..	"	400.	"	50.	"	250
8. WEST BROMWICH	"	360.	"	30.	"	250
9. HANLEY .....	"	385.	"	40.	"	300
10. GUERNSEY .....	"	926.	"	30.	"	450
11. HANLEY.....	"	600.	"	22.	"	400
12. ESSEX .....	"	1,000.	"	45.	"	750
13. SOUTH COAST...	"	620.	"	60.	"	525
14. LONDON, W.....	"					

Some of above, newly established, increasing rapidly.

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### TENDER.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**ALLIANCE** and Dublin Consumers' Gas Company, D'Olier Street, Dublin.—The Directors of the above Company are prepared to receive Tenders for the purchase of Spent Oxide of Iron, produced on the Company's works, the quantity being about 900 tons per annum. The contract is to be for three or five years. Specifications, giving particulars of sale and the nature of the proposed contract, can be had on application to the undersigned, at the Company's Offices, D'Olier Street. Tenders to be lodged at the Company's Offices, D'Olier Street, on or before August 21, 1888, endorsed "Tenders for Spent Oxide of Iron." W. F. Cotton, Secretary and Manager. Offices, D'Olier Street, Dublin; July 18, 1888.

### SALE BY AUCTION.

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**SALVAGE EX YORUBA (s.), WRECKED AT GUERNSEY.**  
ON ACCOUNT OF THE UNDERWRITERS.

**ROBERT LYON & CO.** will SELL by PUBLIC AUCTION, on Wednesday, August 1, 1888, at 2 P.M. prompt, at the Commercial Sale Rooms, Mincing Lane, London, E.C., 110 cases (about 2,500 lbs.) fine and honeycomb sponges, 200 owt. Marseilles soap, 19 cases perfumed spirits, 300 lbs. tortoiseshell, 260 doz. China silk handkerchiefs, Manila rope, fish oil, and 40 packages sundries; also 10,000 orange and myrtle sticks with handles, and 30 packages of ditto handles. On view Tuesday and Wednesday, at No. 5 Warehouse, London Docks. Catalogues at 2 St. Peter's Alley, Cornhill, London, E.C.

### TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**EBBW Vale.**—First-class House and Shop to Let; grand opportunity for a Chemist and Druggist; drapery, grocery, butchery, and bakery carried on successfully for a number of years; should be seen at once. Particulars of Wm. Hiley, Porth, Pontypridd.

**PICCADILLY,** South Side, No. 176.—Capital Business Premises, 19 feet frontage and about 60 feet deep, to be Let by Tender, on lease for 15 years, from October 10 next. Tenders to be sent to the Office of Woods, Whitehall Place, before 12 o'clock (noon), on August 21, 1888. For further information personal application should be made to Mr. Arthur Oates, 7 Whitehall Yard, S.W.

## BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**WANTED.** A small, good-class Retail and Dispensing Business, capable of being increased; South or West of England preferred. Send full particulars, in confidence, to "Cheerful" care of J. Noble Prazz, Camborne

**IMMEDIATELY.**—Good genuine Retail, Dispensing, and Prescribing; doing about £500 or £600 per annum; in London; busy neighbourhood preferred; cash down. Address, in confidence, M. A. P., 23 Ampton Street, London, W.C. N.B.—All applications must contain full particulars or will not be answered.

**A GENUINE** middle-class Business, in a healthy locality in or near London; must be capable of improvement, and have comfortable house, with garden; or a bonus of £5 given for introduction to a good opening, if accepted. Particulars to H. G. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED,** to purchase for cash a small business capable of extension, in a country town or good village; must be situated in a dry healthy locality, and have good house with private entrance; Midlands preferred; no agents. Apply, with full particulars, to H. J. B., 154 Sifton Street, Southport.

## BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**TO** Chemists and Druggists.—Shop and Residence in a respectable and populous neighbourhood; no chemist within the radius of a mile; rent £50. Apply to Andrew Hart, 192 High Street, Stoke Newington.

**PRESCRIBING** and General Retail Business for disposal, in South-West Yorkshire; corner shop; good position; good opportunity for Chemist and Dentist. For further particulars apply to "Bewgoin," care of Messrs. Clarke, Bleasdale & Co., York.

**DURHAM County.**—An old-established Retail Business, in good position in a large town; returns about £500; rent (including £10 let off), £50; lease, 6½ years; price, valuation stock and fixtures only; easy terms may be arranged. J. P., Messrs. Southall Bros. & Barclay, Birmingham.

**CHEMIST** and Druggist's Business, Sheffield; corner shop; no opposition within quarter of a mile; well stocked; capital opening for good prescriber; average turn-over for last four years, £330. "Kau," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LONDON, S.E., Crystal Palace District.**—A genuine Light Retail and Dispensing business; returns about £750, increasing; net profits about £280; handsome shop and good stock, in main thoroughfare; price £700. For particulars apply O. E., care of Messrs. Wright, Layman & Umney, 50 Southwark Street, S.E.

**TO BEGINNERS.**—In a well-populated part of London, an old-established Retail, Prescribing, and Shipping Business; fairly stocked; well fitted; good reasons for disposal; cash required about £260; worth attention; principals only. "Ricardo," Messrs. Deacon's, Leadenhall Street, London.

**YORKSHIRE** (Easingwold; market town).—Compulsory sale of old-established Chemist's Business; immediate possession; house well situated, with single-fronted shop and complete fittings; yard and extensive premises behind; has Gilbey's agency; price about £100; option of purchase of freehold; desirable investment. Robinson & Son, Solicitors, Easingwold.

**TO** be Disposed of, as a going concern, the Business of a Chemist and Druggist carried on by I. Hatherton at No. 9 Market Street, Wigan; the premises, which are well adapted and splendidly fixtured, are situated in one of the busiest parts of the town, and to a practical man requiring a business this is an opportunity which seldom occurs; the stock amounts to about £500. For further particulars, and to treat, apply to the Official Receiver, 16 Wood Street, Bolton.

**WEST.**—Excellent unopposed Family Retail Dispensing and Prescribing, in very healthy district; returns £820; net profit exceeds £300; good shop and house, with private entrance; every investigation solicited; price £700. F. J. Brett, Valuer, 60 St. Stephen's Road, Leicester.

**SACRIFICE.**—In leading position of large Midland town, a Business which has done £30 per week in Light Retail Prescribing, Surgical Appliances, &c., but, owing to affliction of owner, has gone down to £3 a week; fittings alone cost £40; price £200; this is to a good business man such a chance as seldom occurs. F. J. Brett, Valuer, 60 St. Stephen's Road, Leicester.

**WEST of England.**—Unopposed good-class Retail Dispensing and Prescribing Business, returning £850; good house, large stocked garden; price £750. Berkshire.—Good market town; same family 35 years; returning £700; large house and warehouse; only £400. These are genuine and reliable; full investigation allowed. Particulars of Messrs. Berdoe, 30 Jewry Street, Aldgate, City.



**NEAR** top of Bold Street.—Good Shop, with living and work rooms at rear; suitable for a chemist and druggist; rent £50; no goodwill; with use of fixtures. J. Grierson, 12 Paradise Street, Liverpool.

**BIRMINGHAM**.—Chemist, Druggist, and Drysaltery Business for disposal; leading thoroughfare in populous district; established 50 years; sales about £1,200; stock and fixture £200, or at valuation. Further particulars apply to W. O. Hill, Chartered Accountant, 27 Beckett's Hill, Birmingham.

**COMERSETSHIRE**.—Old-established, unopposed, Country Business, 9 miles from Bristol; Light Retail and Prescribing; present profits £100, easily doubled by addition of other branches; rent and taxes under £20; immediate possession for less than one year's profits; good stable stock worth the money. Medical Hall, Nailsea.

## SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**WANTED** at once, an Assistant of good country experience. Apply, stating age, salary, and references, H. Lunn, Horncastle.

**WANTED**, Junior Assistant, about 19 to 21 years of age; hours, 8 A.M. to 9 P.M., Saturdays 11 P.M.; no evening or Sunday duty; salary according to experience, &c. Thompson, Pharmacist, Putney.

**WANTED** a Qualified Assistant for China. Address, stating age, previous engagements, and qualifications, to "China," care of Geo. Gilling & Co., 30 St. Mary Axe, E.C.

**GOOD** Junior Assistant wanted; state experience, age, height, and salary required. W. E., 192 Uxbridge Road, Shepherd's Bush, London, W.

**IMMEDIATELY**, a gentlemanly Junior, well up in dispensing; London experience preferred; indoors; time allowed for reading. Apply letter, W. R. Howard, 4 Napier Road, Kensington, W.

**WANTED**, by a Surgeon, an out-door Assistant, well up in Dispensing and Retail Business. State usual particulars as to experience, references, salary, &c. Address, Pestonji, 16 Mornington Crescent.

**WANTED**, a Junior Assistant in a Light Retail, Dispensing, and Prescribing business; aged about 21 or 22. Apply, stating salary, age, height, with reference (last employer), and when disengaged, closing photo, to Edwin Guy, 27 Eign Street, Hereford.

**TRAVELLER** required, with some experience in Wholesale Drug Trade, for Lancashire and neighbourhood; state age, salary, references, &c. Address, "Resorcine," Office of THE CHEMIST AND DRUGGIST, Cannon Street, E.C.

**ASSISTANT**, indoor; good dispenser, and reliable during principal's absence. State age (not to be under 24), height, salary required, with general particulars and references, to "Chemicus," care of Messrs. Evans & Co., Hanover Street, Liverpool.

**PORTER** Wanted; strong Youth, aged about 17 or 18 years, to live in; would be occasionally required to help and serve in shop, under principal. State, by letter, age, salary, reference, and experience, stating what kind of work been used to, enclosing carte if convenient. Calvert, Chemist, Stokesley.

**MANAGER** required who can invest £200 or more in a good-class and profitable established Pharmacy, and receive a share of the profits; an income of £200 a year will be guaranteed to a suitable gentleman, who need not be qualified. Address, letter only, Mr. Henry, 158 Lavender Hill, S.W.

**WANTED** immediately, for six months, a qualified Manager, to take full charge of business; one who is steady, honest, and of gentlemanly appearance; must be a good prescriber; age about 30; two apprentices kept; references required; enclose carte, to be returned; pages 37s. weekly. Apply, W. Worsley, 1 Worsley Terrace, Wigan.

**WANTED**, to go to America, a man who thoroughly understands the making of oil silk and oil muslin, and who is competent to turn out a finished article; must be sober, well recommended, and energetic. Address, with full particulars, "Oiled Fabrics," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED** immediately, an Assistant competent to take entire charge of drug counter in a mixed business, and willing to assist with grocery; aged about 23; hours short, no Sunday duty. State age, experience, and salary required, to G. H. Morgan, Chemist and Grocer, Wem, Shropshire. Letters not answered in three days declined.

**TO** Chemists and Druggists.—Wanted, a first-rate Salesman, to travel at home or abroad if required, from 25 to 30 years of age, well educated, of gentlemanly appearance and good address; one who is qualified and can speak foreign languages will be preferred. Applications, enclosing photo (which will be returned), stating age, whether married or single, and with full particulars of previous engagements, to be addressed Melbourne, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C. Application from parties not answering the above requirements will not be responded to.

**WANTED**, a man who thoroughly understands making Bone Drainage Tubes for surgical purposes; must be sober, energetic, and well recommended. Address "Bone Drains," care of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DENTIST** for India.—Thoroughly competent Dentist, capable of establishing a branch of Dentistry in a good Pharmacy; knowledge of Dispensing preferred; excellent prospects for a steady and energetic young man of good address. "India," care of Maw, Son & Thompson, Aldersgate Street, London. By letter; send photo; state height.

**METROPOLITAN HOSPITAL**, Kingsland Road, E.—Assistant Dispenser wanted; candidates must be either Members of the Pharmaceutical Society of Great Britain, or Associates of the Apothecaries' Society of London. Applications, with copies of testimonials, to be sent in on or before Monday, 6th August, to Charles H. Byers, Secretary.

**TRAVELLER** Wanted.—A Firm having a Proprietary Article little known in England, but largely sold on the Continent, desire to find a Half Dozen Travellers who visit the trade and who would be willing to take up the article on commission only. Write, in first instance, to M. care of Walter Hill & Co., 69 Southampton Row, London.

**IMMEDIATELY**.—A Junior Assistant or Improver, well-educated and of gentlemanly appearance and address, for a first-class light Retail and Dispensing Business in a fashionable watering-place; state full particulars, age, height, experience, salary required, and references. W. Giffard Lenfestey, 33 & 34 Mortimer Street, Herne Bay, Kent.

## SITUATIONS WANTED.

1s. for twelve words; 6d. for every six words beyond.

**ASSISTANT**; aged 23; six years' experience. "Beta," 32 Bonner Road, Victoria Park.

**IMPROVER**; passed Preliminary; speaks French; no salary if time for study; aged 19 "Farna," G. N. Station, New Southgate.

**JUNIOR**, requiring experience in Dispensing. W. H., 138 High Street, Bromley, Kent.

**TO** Manage a Branch, or as an Assistant, and extract teeth, &c.; qualified. Apply, A. D. Thompson, 75 Nottingham Street, Sheffield.

**OUTDOOR** Assistant, or Dispenser to Surgeon; aged 24; good prescriber and tooth extractor. F. Orange, 53 Somers Road, Southsea.

**LOCUM TENENS**.—Assistant; aged 22; good references and experience; disengaged. B., Underwood Villa, Crewe.

**AS** Assistant; with a good knowledge of Mechanical Dentistry. "Rad," 198 Kentish Town Road.

**JUNIOR**; London; aged 22. "Chemicus," 19 Avenue Road, Hackney Downs.

**MANAGER** or Dispenser; Surgeon's or Chemist's; temporary or permanent. James Duukerly, M.P.S., 88 Morton Road, Islington, N.

**LOCUM TENENS**; good experience and references. Allwood, 38 Chesterton Road, Notting Hill.

**WHOLESALE**.—Situation required in Warehouse; good experience; aged 30; London or country. Tedder, 319 Roman Road, Bow, E.

**ASSISTANT**; Minor; aged 26; good references. G. W., 1 Claremont Road, Surbiton, S.W.

**LOCUM TENENS**, qualified; good references; disengaged. G. Llanthoney Court, Abergavenny.

**ASSISTANT**; temporary or permanent; satisfactory references. B., 2 Milverton Street, S.E.

**MINOR**; aged 24; London preferred. Jenkins, Post Office, Birch Grove, Swansea.

**IMPROVER**; passed Prelim.; aged 19. "Saccharin," 1A Pleasant Place, Ramsgate, Louth, Lincs.

**JUNIOR**; aged 20; 4 years' experience. W. H. Bridgman, The Square, Holsworthy.

**WHOLESALE**; wet or dry counter; 16 years' experience; first-class reference. J. A. C., 4 Barrowby Road, Grantham.

**ABOUT** August 20; as Assistant in good-class business; qualified; good references; careful dispenser. "Chemist," Burystead, Sutton, Ely.

**WHOLESALE** Druggist, aged 30; 16 years' experience, London and Provinces; could take management of Wet or Dry department if required. A., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AS** Manager; qualified; good experience; successful Prescriber; town or country; would not object to temporary engagement. A. P. S., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.



**PERMANENT** or Temporary; town or country; good prescriber, dispenser, extractor; married; aged 30. B. E., 144 Westmorland Road, London, S.E.

**ASSISTANT**; aged 20; 7 years' experience; quick counterman; good dispenser and prescriber; excellent references; disengaged July 28. E. D., West Wharf, Cardiff.

**IN A MONTH**.—To manage Branch; aged 26; married; good Prescriber and Teeth Extractor; references. "Chemicus," 12 High Street, Coventry.

**MANAGER**; long experience; open to take charge of a Dispensing, Prescribing, or General business. Address, P., care of W. Scott, 65 Medlock Street, Hulme, Manchester.

**ASSISTANT**, Branch Manager, or Surgeon's Dispenser; good prescriber; 15 years' experience; married; unquestionable references; disengaged; moderate salary. W. M., 20 Prince's Street, Landport, Hants.

**AS** Assistant; good Salesman and Prescriber; aged 28; height 5 feet 10 inches; good references. S., 5 Lewis Villas, Carshalton Road, Sutton, Surrey.

**RETAIL MANAGER** or Assistant, in either Wholesale or Retail; qualified and experienced; at liberty; would not object to travel. "Beta," 143 Campbell Road, Stoke-on-Trent.

**TEMPORARY** Engagement for about one month as Assistant, or to manage during absence of principal; accustomed to first-class trade; nine years' experience; disengaged. Tees View, Middleton St. George Darlington.

**LOCUM-TENENS**.—Mr. J. Hall Roberts, qualified Chemist (formerly of Harrow), is prepared to accept engagements on reasonable terms as above for ensuing season in town or country; a convinced abstainer from alcoholic beverages. Kindly enclose stamp for reply to Holbein House, Folkestone.

## APPRENTICESHIP.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

**CHEMIST** wishes to place his son, aged 17, for a term of 3 years in a good house where he will be able to learn the business thoroughly; has passed the Preliminary examination. Address, 13 Crescent, Norwich.

## MISCELLANEOUS.

*Special charges are made for Advertisements under this heading, which can be obtained on application.*

**100 LAMPOUGH SHARES** for Sale at 25s. 6d. each. Letters, D. A., 90 Greenwood Road, Dalston.

**G. H. DELACRE & CO.**, Brussels, Wholesale Chemists and Sundriesmen, are always pleased to enter into negotiations with any British or American firm who wish to push their Specialities in Belgium or Holland; travellers kept.

**SHEEP DIP**.—Manufacturer overstocked will sell limited quantity Soluble Carbolic Fluid Sheep Dip (similar to Little's or Jeyes') at 1s. 6d. gallon, in 40-gallon casks; cash to clear. "Chemicus," Charles Taylor & Co.'s Advertisement Offices, 154 to 157 Fleet Street.

**BOXES**.—Light Wood Boxes, cheapest, strongest, and best, suitable for packing all kinds of articles for transmission by post or rail; all sorts and sizes of boxes made to order; samples and price-lists, 4 stamps. Write for sample, stating size required, to T. Casbon, Millfield Box Works, Peterborough.

## PRELIMINARY AND MINOR.

**ALL** Students who are preparing should send for particulars of a method of study which will enable them to pass with ease. Enclose stamped envelope to Mr. J. Tully (Hills Prizeman), Chemist, Hastings. Established 1872. References to past and present Pupils. 32 Pupils passed the last Examinations.

## STUDENTS' AIDS TO EXAMINATION.

**PRELIMINARY**.—Arithmetic and Metric System, 1s. How to Write an Essay, 3d. Caesar Simplified, 1s. Knotty Points in Latin Grammar, 1s. 6d. **MINOR**.—Equations Simplified, 1s. Illegible Autographic Prescriptions, 1s. Notes on Dispensing, 1s. Prescriptions given at the Minor, 6d. "Chemist," care of Mr. J. Edwards, Wye, Kent.

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# THE CHEMIST AND DRUGGIST OF AUSTRALASIA.

JUNE 1, 1888.

CONTENTS OF No. 6, Vol. 3.

**Editorial Notes**:—"Acetic Acid and the Sale of Poisons Act, N.S.W.," "Prescribing by Chemists," "Opium Smoking," "The Dental Act, Victoria."

## COLONIAL REPORTS.

**New South Wales**.—Pharmacy Board: Official Report, and Correspondence.

**New Zealand**.—Pharmacy Board of New Zealand: Report of Meeting.

**South Australia**.—Report of Monthly Council Meeting.

**Victoria**.—Pharmacy Board of Victoria, and Pharmaceutical Society of Australasia: Reports of Meetings.

Letters from our own correspondents in Sydney, Auckland, Brisbane, Adelaide, Hobart, and Launceston.

Students' Corner—Trade Notes—Literary Notes—The New Mineral Springs of Victoria—The Preparation of Olive Oil in the United States—Poisoning Cases, &c., &c.

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